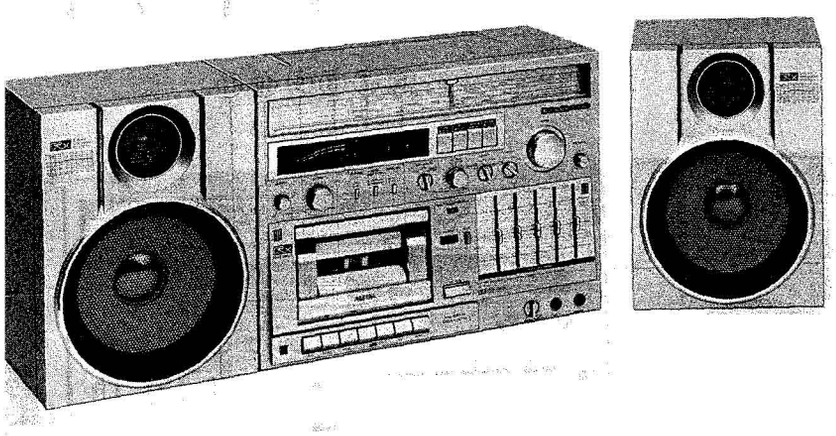
Service Manual

Radio Cassette

RX-C100F

Portable Component System with 4-Band Radio



■ SPECIFICATIONS

General:

Power Requirement:	AC; 110 ~ 115/115 ~ 127/200 ~ 220/ 230 ~ 250V, 50/60Hz Battery; 15V (Ten "D" Size Flashlight Batteries) (National UM-1 or equivalent) Car battery; with optional car battery cord RP-9550
Power Consumption:	65W (AC only)
Power Output:	40W (20Wx2)...RMS (max.) 80W (40Wx2)...PMPO
Speaker:	Woofer; 16cm ($6^1/_2$") PM Dynamic Speaker (8Ω) Tweeter; 6.5cm ($2^1/_2$") PM Dynamic Speaker (8Ω)
Input:	MIC; sensitivity 0.26mV/applicable microphone impedance 200 ~ 600Ω MIX MIC: sensitivity 0.8mV Phono; sensitivity 2.5mV/47kΩ over Line in; sensitivity 100mV/47kΩ over DC IN; 13.2 (12 ~ 15V)
Output:	Line out; sensitivity 420mV/4.7kΩ under EXT Speaker; 8Ω Headphones; 8Ω
Dimensions:	Total Size 708(W)x256(H)x217(D) mm ($27^7/_8$"x$10^1/_8$"x$8^1/_2$") Main Unit 348(W)x256(H)x217(D) mm ($13^{11}/_{16}$"x$10^1/_8$"x$8^1/_2$") Speaker Box 185(W)x256(H)x180(D) mm ($7^1/_4$"x$10^1/_8$"x$7^1/_8$")
Weight:	11.2kg (24 lb. 11 oz.) without batteries

Radio Section:

Radio Frequency Range:	FM; 88 ~ 108 MHz MW; 525 ~ 1605 kHz (571 ~ 187m) SW_1; 2.3 ~ 7 MHz (130 ~ 42.9m) SW_2; 7 ~ 22 MHz (42.9 ~ 13.6m)
Intermediate Frequency:	FM; 10.7 MHz AM (MW & SW); 455kHz
Sensitivity:	FM; 2μV/50mW output MW; 50μV/m/50mW output SW_1; 28μV/m/50mW output SW_2; 7μV/50mV output

Tape Deck Section:

Frequency Response:	40 ~ 15,000 Hz (with normal tape) 40 ~ 16,000Hz (with CrO_2 tape) 40 ~ 17,000 Hz (with Metal tape)
Recording system:	AC bias, AC erase
Tape Speed:	4.8cm/s, ($1^7/_8$" ips)
Wow and Flutter:	0.05% (WRMS)
Program Time:	1 hour with C-60 cassette tape
Track System:	4-track 2 channel stereo recording and playback

Specifications are subject to change without notice.

National Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS AND COMPONENTS

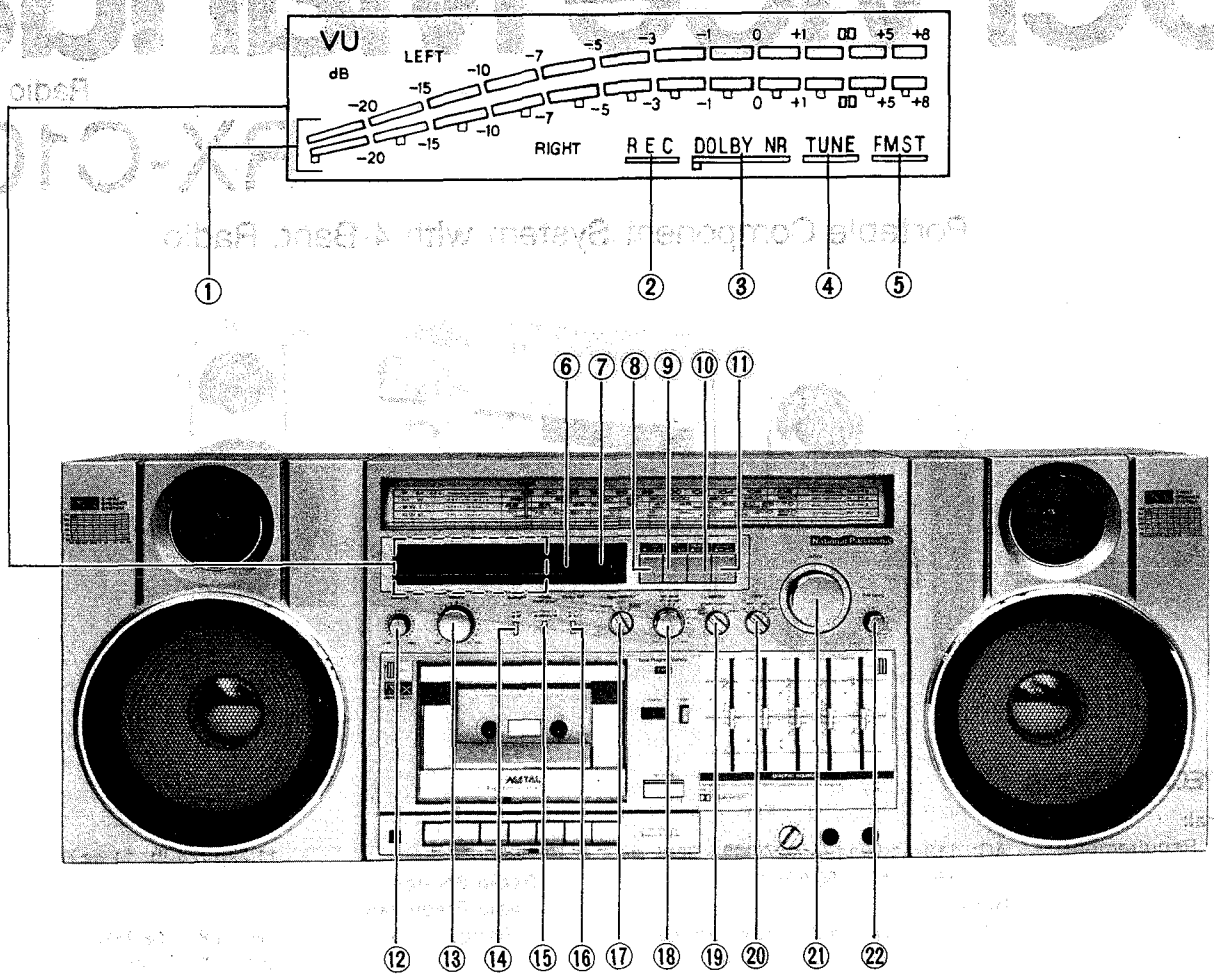


Fig. 2

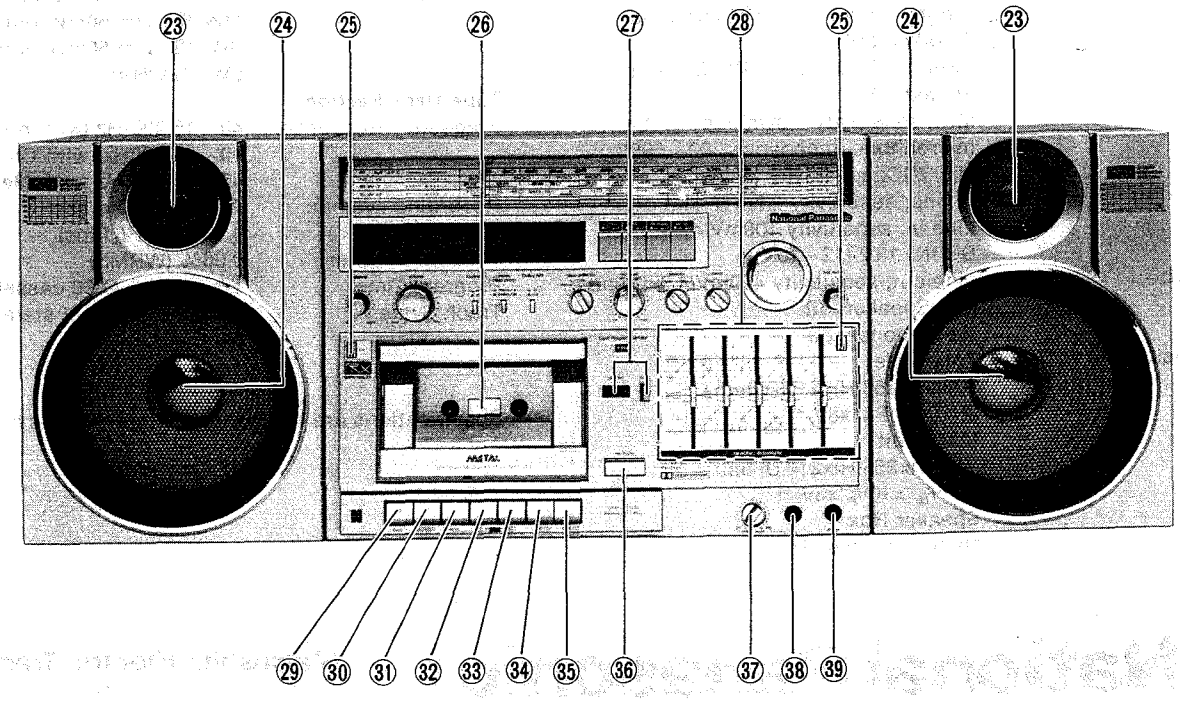


Fig. 3

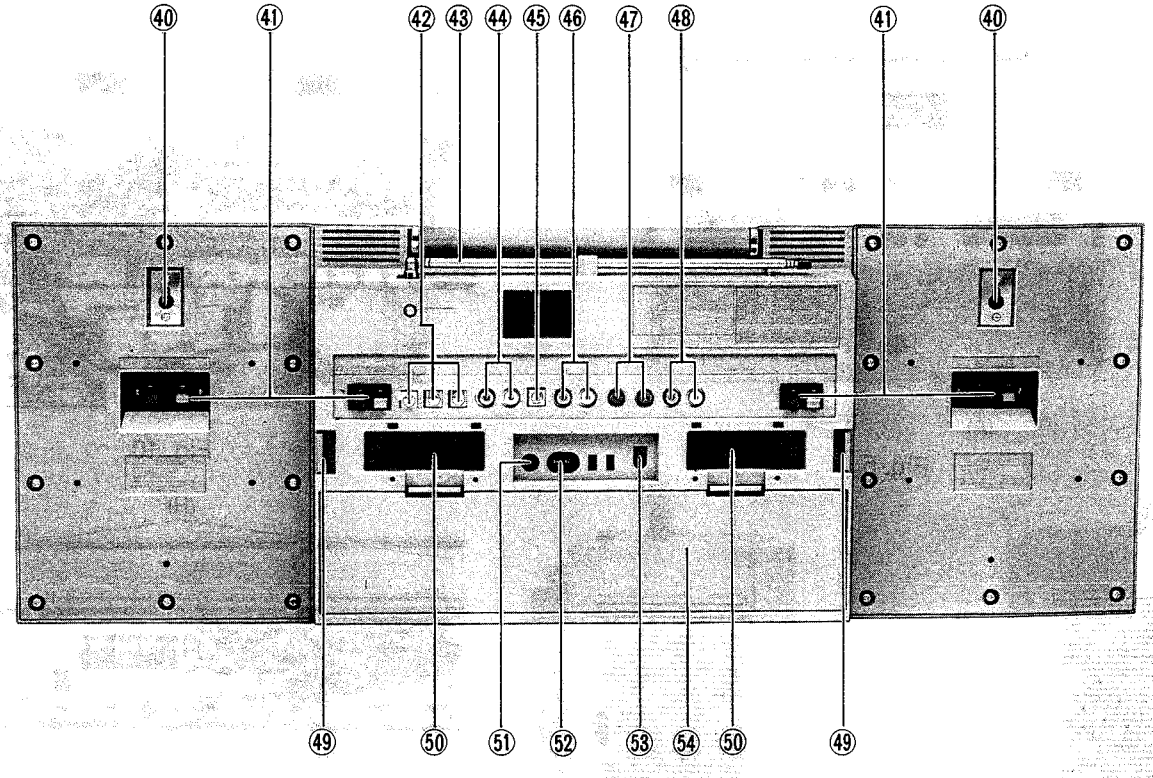


Fig. 4

① VU Meter (VU)
② Recording Indicator (REC)
③ Dolby Noise Reduction Indicator (DOLBY NR)
④ Tuning Indicator (TUNE)
⑤ FM Stereo Indicator (FM ST)
⑥ Power/Battery Check Indicator (power/batt)
⑦ Tape Program Sensing Indicator (TPS)
⑧ FL Meter Switch (on/off)
⑨ Tape Program Sensor Switch (on/off)
⑩ FM Muting Switch (on/off)
⑪ Dial Light Switch (on/off)
⑫ Balance Control (balance)
⑬ Volume Control (volume)
⑭ Loudness Switch (on/off)
⑮ Mode Selector/Beat Proof Switch (mono/I, stereo/II)
⑯ Dolby Noise Reduction Switch (in/out)
⑰ Tape Selector (normal/CrO_2/metal)
⑱ Recording Level Control (rec level)
⑲ Function Selector (power off, tape/radio/phono/line in)
⑳ Band Selector (FM/MW/SW_1/SW_2)
㉑ Tuning Control (tuning)
㉒ Fine Tuning Control (fine tuning)
㉓ Speakers (tweeter) 6.5 cm ($2^1/_2$") 8Ω
㉔ Speakers (woofer) 16 cm ($6^1/_2$") 8Ω
㉕ Built-in Microphones (MIC)
㉖ Cassette Compartment
㉗ Tape Counter and Reset Button (counter/reset)
㉘ Graphic Equalizer Controls (graphic equalizer)
㉙ Eject Button (eject)
㉚ Record Button (record)
㉛ Rewing Button (rewind)
㉜ Fast Forward Button (ff)
㉝ Playback Button (play)
㉞ Stop Button (stop)
㉟ Pause Button (pause)
㊱ Record Muting Button (rec mute)
㊲ Mixing Level Control (mixing level)
㊳ Mixing Microphone Jack (mic), 0.8mV
㊴ Headphone Jack (phones), 8Ω
㊵ Speaker Wall Mounts
㊶ Speaker Terminals
㊷ External Antenna Terminals (FM ANT/AM ANT)
㊸ Telescopic Antenna
㊹ Phono Magnetic Cartridge Input Jacks (PHONO), 2.5mV/47kΩ over
㊺ Phono Ground Terminal (EARTH)
㊻ Line Input Jacks (LINE IN), 100mV/47kΩ over
㊼ Microphone Jacks (MIC), 0.26mV/200 ~ 600Ω
㊽ Line Output Jacks (LINE OUT), 420mV/4.7kΩ under
㊾ Speaker Lock Buttons
㊿ Speaker Cable Compartments
(51) DC Input Jack [DC In 13.2V (12 ~ 15 V) ⊖—◉— ⊕]
(52) AC Socket (AC IN ~)
(53) Voltage Selector (VOLTAGE SELECTOR)
(54) Battery Compartment

DOLBY SYSTEM

* "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
* Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

DISASSEMBLY INSTRUCTIONS

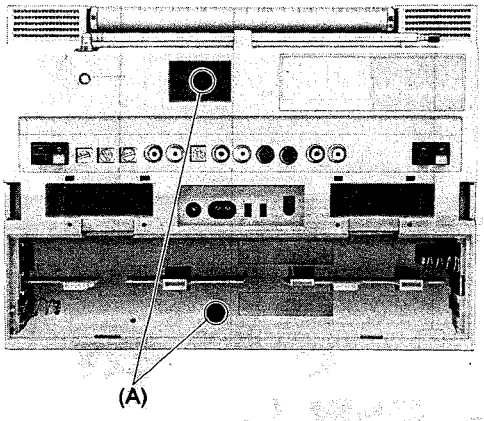


Fig. 5

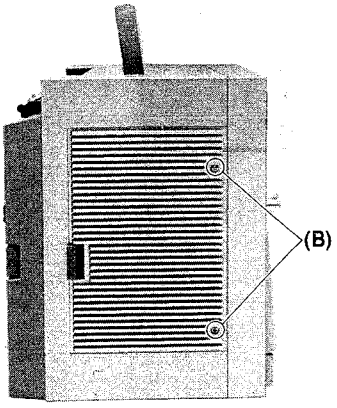


Fig. 6

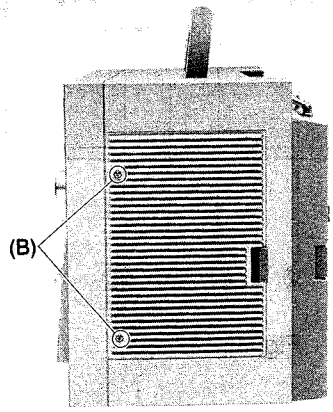


Fig. 7

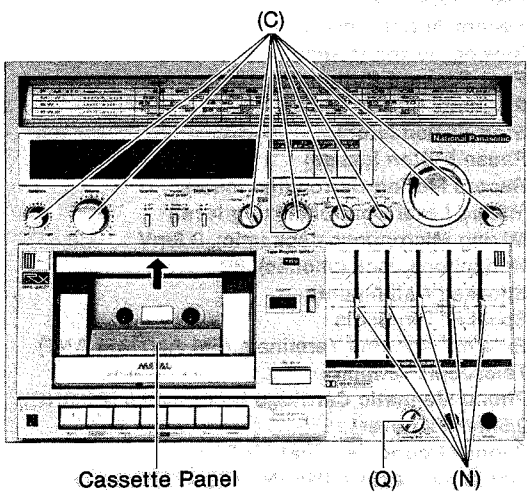


Fig. 8

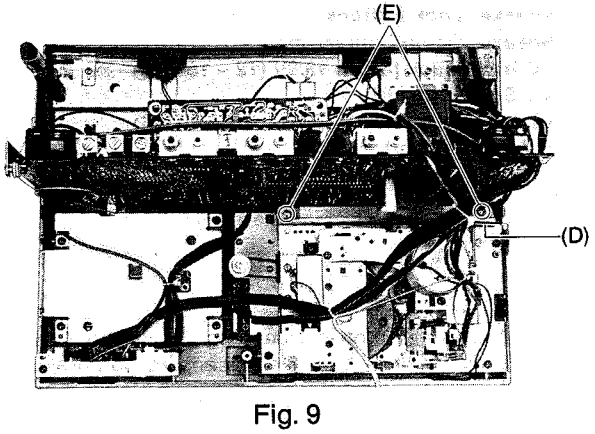


Fig. 9

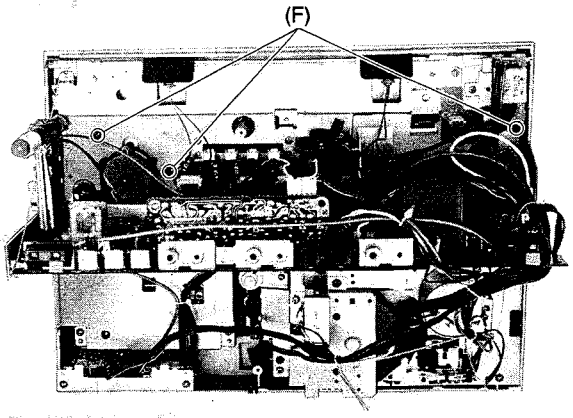


Fig. 10

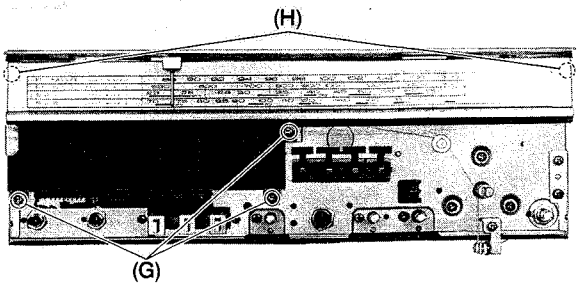


Fig. 11

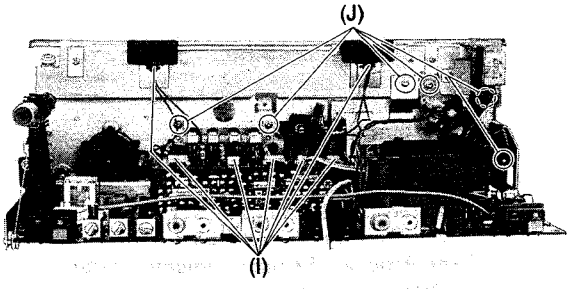


Fig. 12

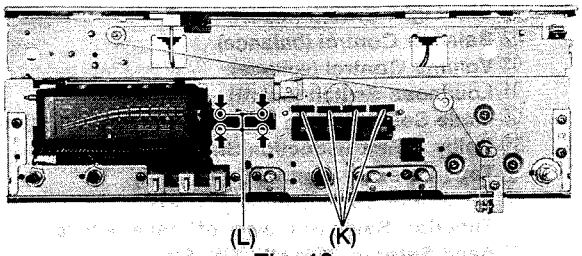


Fig. 13

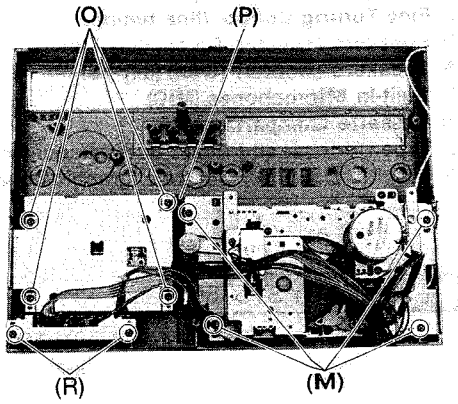


Fig. 14

Procedure	To remove —.	Remove —.	Shown in Fig. —.
1	Front Cabinet	Screw (3×50) .....(A)×2	5
2		Screw (3×8) .....(B)×4	6, 7
3	Chassis	Knob .....(C)×9	8
4		Spring .....(D)×1	9
5		Screw .....(E)×2	9
6		Red Screw (3×10) .....(F)×3	10
7	Dial Scale	Screw (3×6) .....(G)×3	11
8		Twist the leg of dial scale .....(H)×2	11
9	Meter Circuit Board	**Socket & Lamp ..... (I)x7**	12
10		**Screw (3x6)..... (J)x6**	12
11		Lever .....(K)×4	13
12		Push the catch in the direction of arrows.....(L)×4	13
13	Mechanism	Remove the cassette panel in the direction of arrow.	8
14		Red screw (3×10) .....(M)×4	14
15	Equalizer Circuit Board	Knob .....(N)×5	8
16		Red Screw (3×10) .....(O)×4	14
17		Unsolder lead wire .....(P)×1	14
18	Headphone Circuit Board	**Knob..... (Q)x1**	**8**
19		**Red screw (3x10).....(R)x2**	14

■ CONNECTOR POSITION

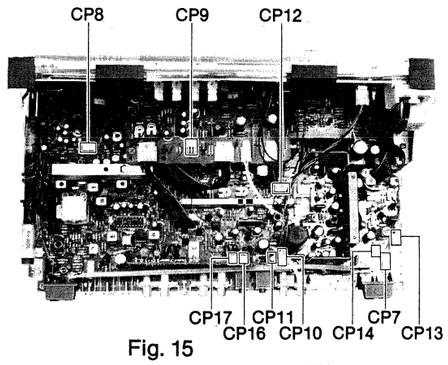


Fig. 15

CP7 : Headphone connector.
CP8 : Mixing Microphone jack connector.
CP9 : Mechanism connector.
CP10: Mechanism connector.
CP11: Motor connector.
CP12: Record/playback head connector.
CP13: Erase head connector.
CP14: Rec mute switch connector.
CP16: Built-in microphone connector (L)
CP17: Built-in microphone connector (R)

DIAL THREADING

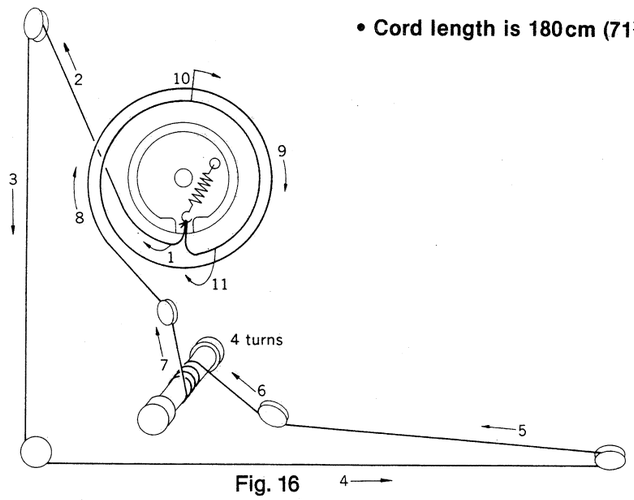
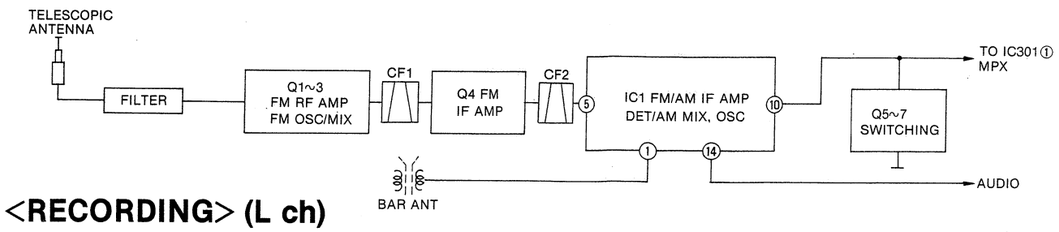


Fig. 16

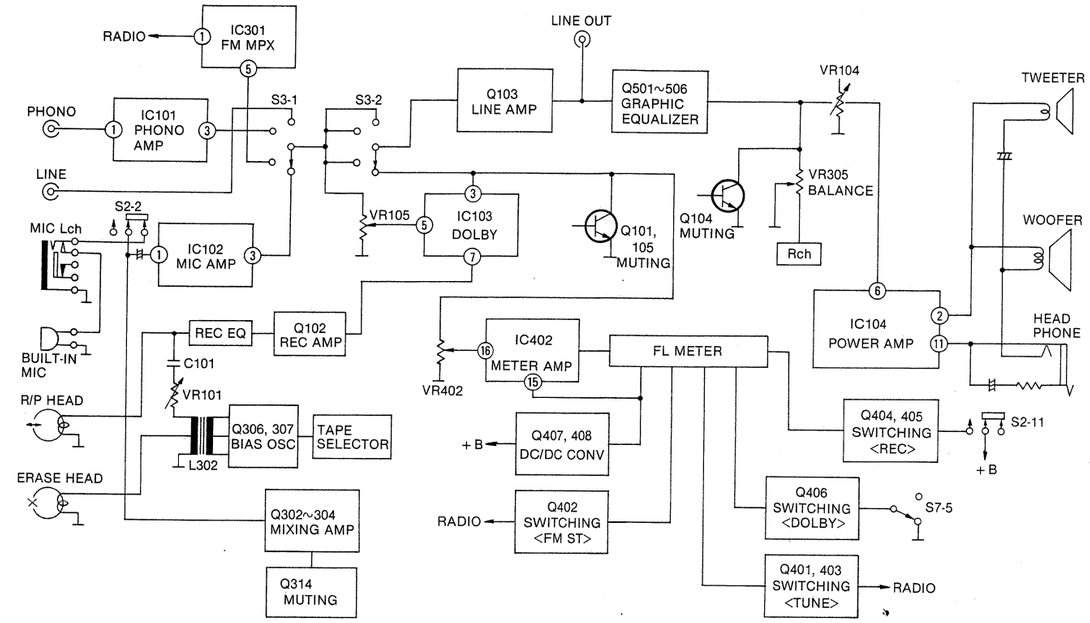
• **Cord length is 180cm ($71^{3}/_{16}$″).**

BLOCK DIAGRAM

<RADIO>



<RECORDING> (L ch)



<PLAYBACK> (L ch)

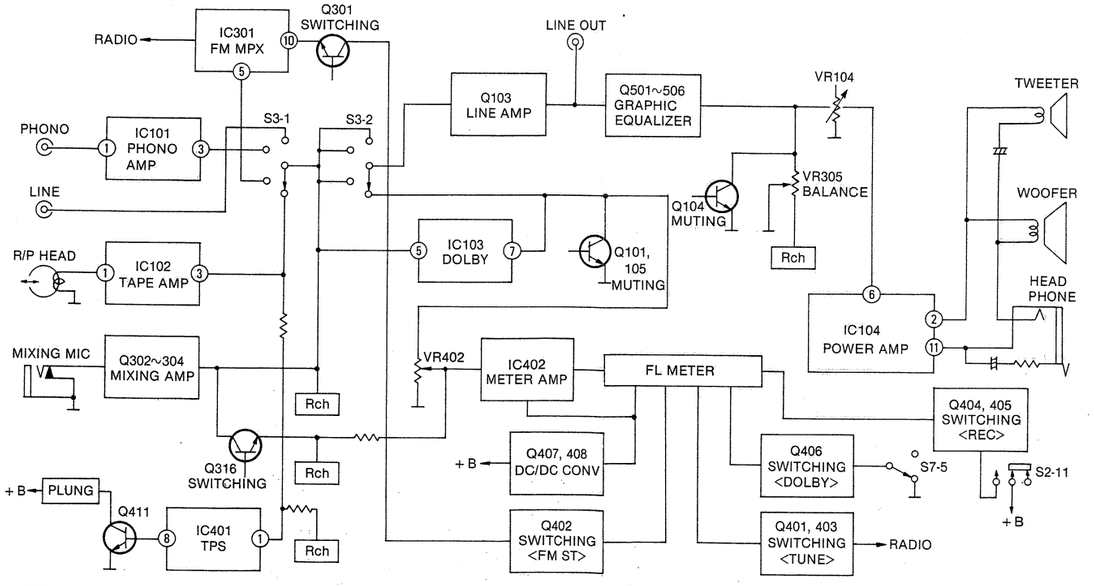


Fig. 17

■ ALIGN

1. S	
2. S	
3. S	
4. S	

■ MW, S

	BAND
(1)	MW
(2)	MW
(3)	MW
(*1) (	
(4)	SW1
(5)	SW1
(*1) (	
(6)	SW2
(7)	SW2

■ FM AL

	BAND
(1)	FM
(2)	FM

MEASUREMENTS AND ALIGNMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set graphic equalizer to center.
3. Set band switch to MW, SW1, SW2 or FM.
4. Set balance control to center.
5. Set function selector to radio.
6. Set fine tuning to center.
7. Set power source voltage to 15V DC.
8. Output of signal generator should be no higher than necessary to obtain an output reading.

■ MW, SW1 and SW2 ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETTER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	AM-IF ALIGNMENT						
(1)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/about 600 kHz)	Output meter across voice coil.	T2 (AM IFT)	Adjust for maximum output.
	MW-RF ALIGNMENT						
(2)	MW	〃	550 kHz	550 kHz [20 mm ($^{25}/_{32}$″)]	Output meter across voice coil	L8 (MW OSC Coil) (∗1) L3 (MW ANT Coil)	Adjust for maximum output. Adjust L3 by moving coil bobbin along ferrite core.
(3)	MW	〃	1,500 kHz	1,500 kHz [167 mm ($6^{19}/_{32}$″)]	〃	CT5 (MW OSC Trimmer) CT1 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
	(∗1) Cement antenna bobbin with wax after completing alignment.						
	SW1-RF ALIGNMENT						
(4)	SW1	〃	2.3 MHz	2.3 MHz [6.2mm ($^1/_4$″)]	Output meter across voice coil	L9 (SW1 OSC Coil) (∗1) L4 (SW1 ANT Coil)	Adjust for maximum output. Adjust L4 by moving coil bobbin along ferrite core.
(5)	SW1	〃	7 MHz	7 MHz [178mm (7″)]	〃	CT6 (SW1 OSC Trimmer) CT2 (SW1 ANT Trimmer)	Adjust for maximum output. Repeat steps (4) and (5).
	(∗1) Cement antenna bobbin with wax after completing alignment.						
	SW2-RF ALIGNMENT						
(6)	SW2	Connect to test pint ▼5 through ceramic capacitor (10 pF). Negative side to test point ▼4	7 MHz	7 MHz [6.2mm ($^1/_4$″)]	Output meter across voice coil	L10 (SW2 OSC Coil) L5 (SW2 ANT Coil)	Adjust for maximum output.
(7)	SW2		22 MHz	22 MHz [178mm (7″)]	〃	CT7 (SW2 OSC Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETTER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	FM-IF ALIGNMENT						
(1)	FM	Connect to test point ▼5 through 0.001μF. Negative side to test point ▼4.	10.7 MHz (SWP.)	Point of non-interference. (on/about 90 MHz)	Connect vert. amp. of scope to test point ▼6. Negative side to test point ▼7.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refert to fig. 18.)
(2)	FM	〃	〃	〃	〃	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 19.)

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETTER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	FM-RF ALIGNMENT						
(3)	FM	Connect to test point ▼5 through FM dummy antenna. Negative side to test point ▼4.	90 MHZ	90 MHz [30mm ($1^3/_{16}$″)]	Output meter across voice coil.	L7 (FM OSC Coil) L1 (FM ANT Coil)	(∗2) Adjust for maximum output.
(4)	FM		106 MHz	106 MHz [158mm ($6^7/_{32}$″)]	〃	CT4 (FM OSC Trimmer) CT3 (FM ANT Trimmer)	(∗2) Adjust for maximum output. Repeat steps (3) and (4).
	(∗2) Three output responses will be present; proper tuning is the center frequency.						

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	90MHz, 60dB (Mod CW)	▼8 ...(+) ▼9 ...(−)	VR301	19kHz	Adjust VR301, for 19kHz (±150Hz) reading on electronics counter.

■ AUDIO ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8kHz, −20dB)	SP	Maximum output.	Azimuth screw	Playback mode
Playback level	QZZCFM (315Hz, 0dB)	LINE OUT	0.42±0.02V	VR102 (Lch) VR202 (Rch)	Playback mode
FL meter	QZZCFM (315Hz, 0dB)	Meter	"0" point	VR402 (Lch) VR401 (Rch)	Playback mode
Bias oscillation frequency	——	▼301 ...(+) ▼E2 ...(−)	67±1kHz	L302	Record mode Beat proof switch → II Tape selector → Metal
Erase current	Use metal tape	▼301 ...(+) ▼E2 ...(−)	$140\pm^{3}_{5}$mV	VR304	Record mode Beat proof switch → II Tape selector → Metal
Bias trap	——	▼2 ...(Lch) ▼1 ...(Rch) ▼E1 ...(−)	0±0.5dB	L102 (Lch) L202 (Rch)	Record mode Beat proof switch...I → II
Bias current	Use metal tape	▼2 ...(Lch) ▼1 ...(Rch) ▼E1 ...(−)	Metal 8±0.3mV Normal 3.8±0.3mV	Metal VR101 (Lch) VR201 (Rch) Normal VR303	Record mode Beat proof switch → II Tape selector → Metal
Overall gain	LINE IN f = 1kHz, −20dB	LINE OUT	REC...250mV Playback... 250±10mV	VR103 (Lch) VR203 (Rch)	1. Place UNIT into record mode, and tape selector to normal. 2. Supply 1kHz (−20dB) from AF oscillator to LINE IN. 3. Adjust REC LEVEL until monitor level at test point ▼101 and ▼301 becomes 250mV. 4. Playback recorded tape, and make sure the value at LINE OUT on the electronics voltmeter becomes 250mV±10mV.

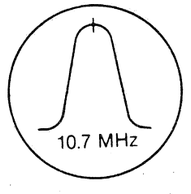


Fig. 18

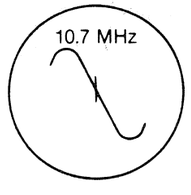
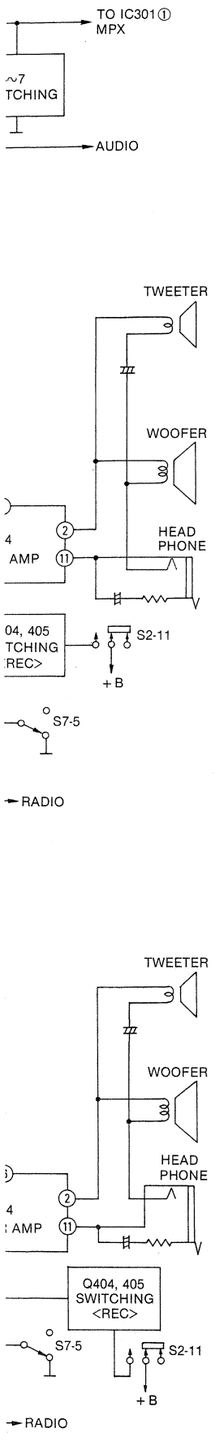
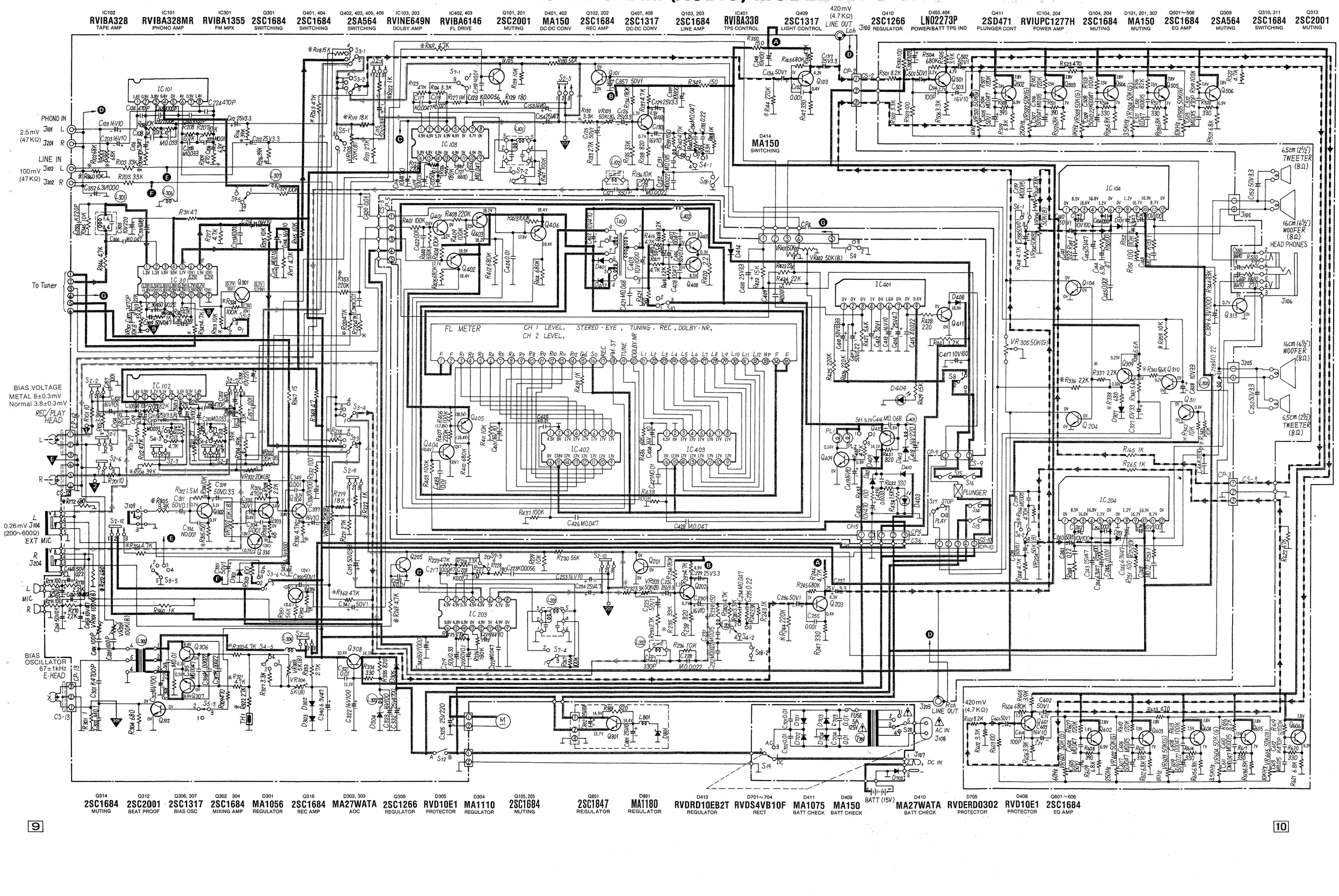
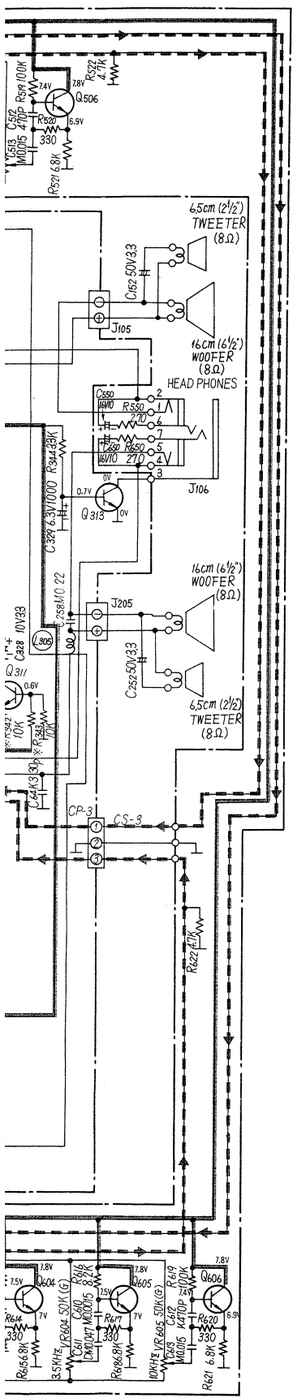


Fig. 19



SCHEMATIC DIAGRAM (AUDIO) MODEL RX-C100F


IC102 RVIBA328 TAPE AMP
IC101 RVIBA328MR PHONO AMP
IC301 RVIBA1355 FM MPX
Q301 2SC1684 SWITCHING
Q401, 404 2SC1684 SWITCHING
Q402, 403, 405, 406 2SA564 SWITCHING
IC103, 203 RVINE649N DOLBY AMP
IC402, 403 RVIBA6146 FL DRIVE
Q101, 201 2SC2001 MUTING
D401, 402 MA150 DC-DC CONV
Q102, 202 2SC1684 REC AMP
Q407, 408 2SC1317 DC-DC CONV
Q103, 203 2SC1684 LINE AMP
IC401 RVIBA338 TPS CONTROL
Q409 2SC1317 LIGHT CONTROL
Q410 2SC1266 REGULATOR
D403, 404 LN02273P POWER/BATT TPS IND
Q411 2SD471 PLUNGER CONT
IC104, 204 RVIUPC1277H POWER AMP
Q104, 204 2SC1684 MUTING
D101, 201, 307 MA150 MUTING
Q501~506 2SC1684 EQ AMP
Q309 2SA564 MUTING
Q310, 311 2SC1684 SWITCHING
Q313 2SC2001 MUTING
PHONO IN 2.5mV (47KΩ) J101 L J201 R
LINE IN 100mV (47KΩ) J102 L J202 R
To Tuner
BIAS VOLTAGE METAL 8±0.3mV Normal 3.8±0.3mV
REC/PLAY HEAD
EXT MIC 0.26mV J104 (200~600Ω)
MIC
BIAS OSCILLATOR 67±1kHz E-HEAD
FL METER CH 1 LEVEL, CH 2 LEVEL, STEREO · EYE , TUNING , REC , DOLBY · NR,
MA150 SWITCHING
420mV (4.7KΩ) LINE OUT J103 Lch
Rch LINE OUT J209
AC IN J108
DC IN J107
BATT (15V)
6.5cm (2½") TWEETER (8Ω)
16cm (6½") WOOFER (8Ω)
HEAD PHONES J106
Q314 2SC1684 MUTING
Q312 2SC2001 BEAT PROOF
Q306, 307 2SC1317 BIAS OSC
Q302 304 2SC1684 MIXING AMP
D301 MA1056 REGULATOR
Q316 2SC1684 REC AMP
D302, 303 MA27WATA AOC
Q308 2SC1266 REGULATOR
D305 RVD10E1 PROTECTOR
D304 MA1110 REGULATOR
Q105, 205 2SC1684 MUTING
Q801 2SC1847 REGULATOR
D801 MA1180 REGULATOR
D413 RVDRD10EB2T REGULATOR
D701~704 RVDS4VB10F RECT
D411 MA1075 BATT CHECK
D409 MA150 BATT CHECK
D410 MA27WATA BATT CHECK
D705 RVDERD0302 PROTECTOR
D408 RVD10E1 PROTECTOR
Q601~606 2SC1684 EQ AMP

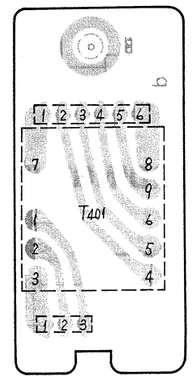


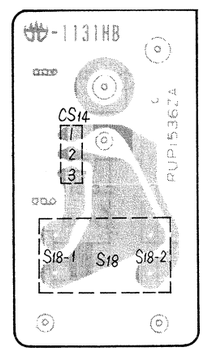
Notes:

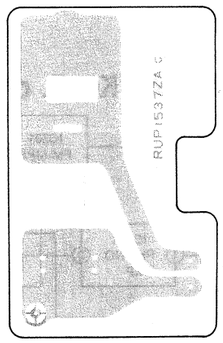
1. S2-1∼S2-12 ...Record/playback switch in "playback" position. (1...Playback, 3...Record).
2. S3-1∼S3-6 ...Function switch in "power off/tape" position. (1...power off/tape, 2...radio, 3...phono, 4...line in).
3. S4-1∼S4-5 ...Tape select switch in "normal" position. (1...normal, 2...CrO_2, 3...metal).
4. S5-1∼S5-3 ...Mode/beat proof switch in "stereo II" position. (1...mono/I, 2...stereo/II).
5. S6-1, S6-2 .....Loudness switch in "on" position. (1...on, 2...off).
6. S7-1∼S7-5 ...Dolby NR switch in "in" position. (1...in, 2...out).
7. S8 .....TPS switch in "on" position. (1...on, 2...off).
8. S9 .....Muting switch.
9. S10 .....FL meter switch in "on" position. (1...on, 2...off).
10. S11 .....Dial light switch in "off" position. (1...on, 2...off)
11. S12 .....Radio/phono/line power switch in "off" position.
12. S13 .....Playback switch.
13. S14 .....Motor switch.
14. S15 .....TPS playback switch.
15. S16 .....FF/REW switch.
16. S17 .....Muting switch.
17. S18-1, S18-2 ...Rec mute switch.
18. S19 .....AC/DC IN select switch.
19. S20 .....Voltage select switch.
20. The marks (*) shows printed-type resistors.
21. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    [ ]...FM position, ( )...AM position,
    < >...Recording position.
22. Battery current: No signal..... 250mA
    Maximum output (radio) 3.3A
    Maximum output (tape) 3.17A
23. VR101, 201 ...Bias Current adjustment VR. (Metal)
    VR102, 202 ...Playback level adjustment VR.
    VR103, 203 ...Overall gain adjustment VR.
    VR104, 204 ...Volume control VR.
    VR105, 205 ...Recording level control VR.
    VR301 .....VCO adjustment VR.
    VR302 .....Mixing control VR.
    VR303 .....Bias current adjustment VR.(Normal)
    VR304 .....Erase current adjustment VR.
    VR305 .....Balance control VR.
    VR401, 402 ...Meter adjustment VR.
    VR501∼505
    601∼605 ...Graphic equalizer control VR.
24. Important safety notice
    Components identified by ⚠ mark have special characteristics important for safety.
    When replacing any of these components, use only manufacturer's specified parts.

	+ Ⓑ Voltage Line		
	Record Signal Line	Metal	100Hz 1±3dB 1kHz 0dB 10kHz 0±5dB
	Radio (FM) Signal Line		
	Playback Signal Line	CrO_2	100Hz 1±3dB 1kHz 0dB 10kHz 0±5dB
	AF Signal Line		
BIAS VOLTAGE 8±0.3mV (Metal) 3.8±0.3mV (Normal)		Normal	100Hz 1±3dB 1kHz 0dB 10kHz 0±5dB
OVERALL FREQUENCY RESPONSE			

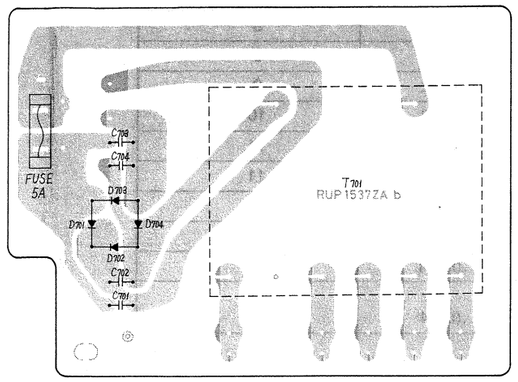
■ SWITCH CIRCUIT BOARD



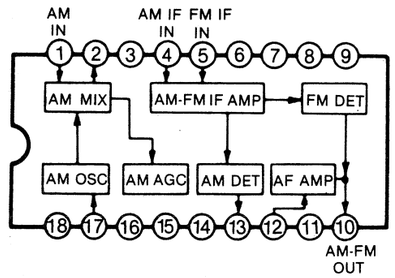




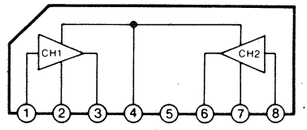
■ POWER SOURCE CIRCUIT BOARD



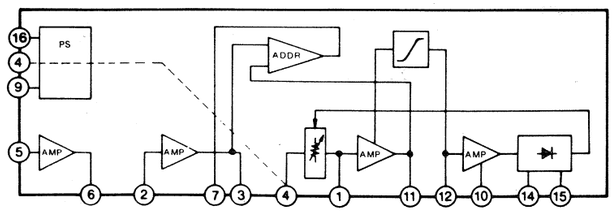
IC1 AN7220A



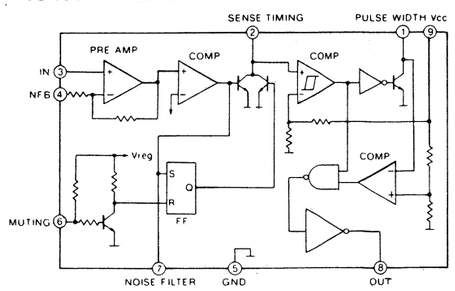
IC101, 102 RVIBA328MR, RVIBA328



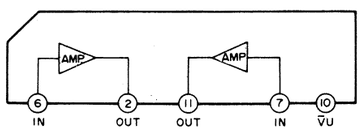
IC103, 203 RVINE649N



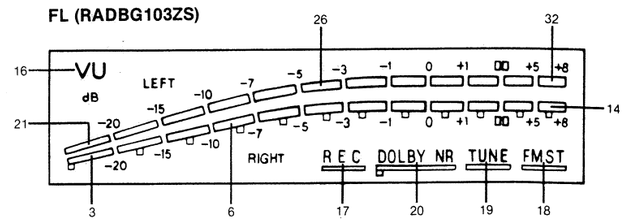
IC401 RVIBA338



IC104, 204 RVIUPC1277H



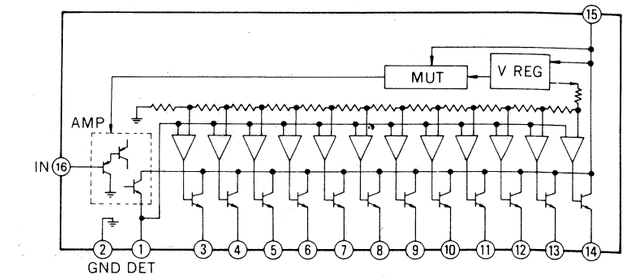
FL DIAGRAM



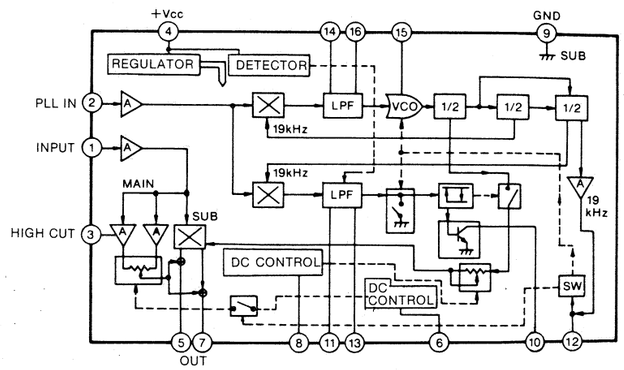
Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	F	F	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	Gd	Sc	REC
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
FMST	TUNE	DOL • NR	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	Np	F	F

IC BLOCK DIAGRAM

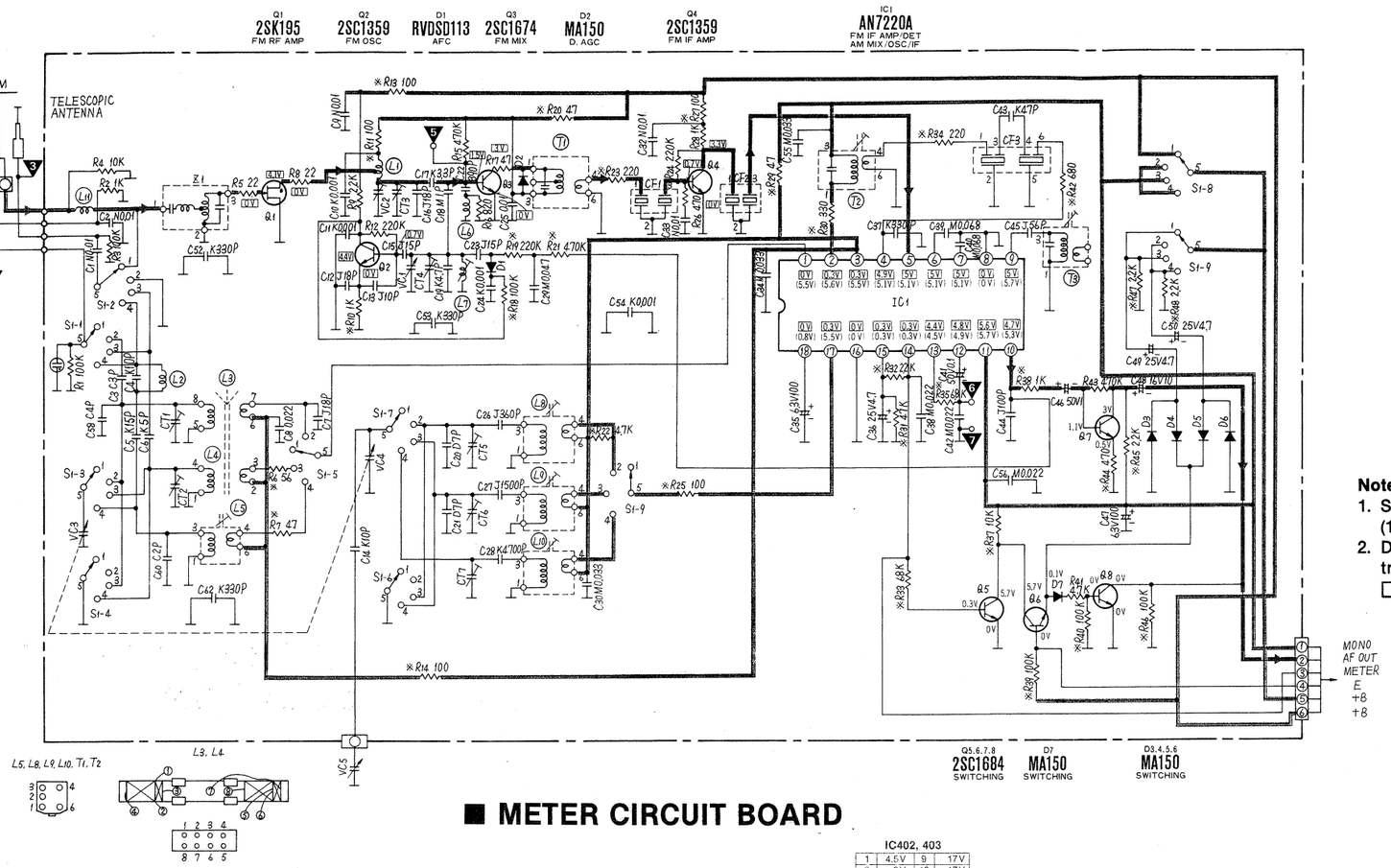
IC402, 403 RVIBA6146



IC301 RVIBA1355



SCHEMATIC DIAGRAM (RADIO) MODEL RX-C100F

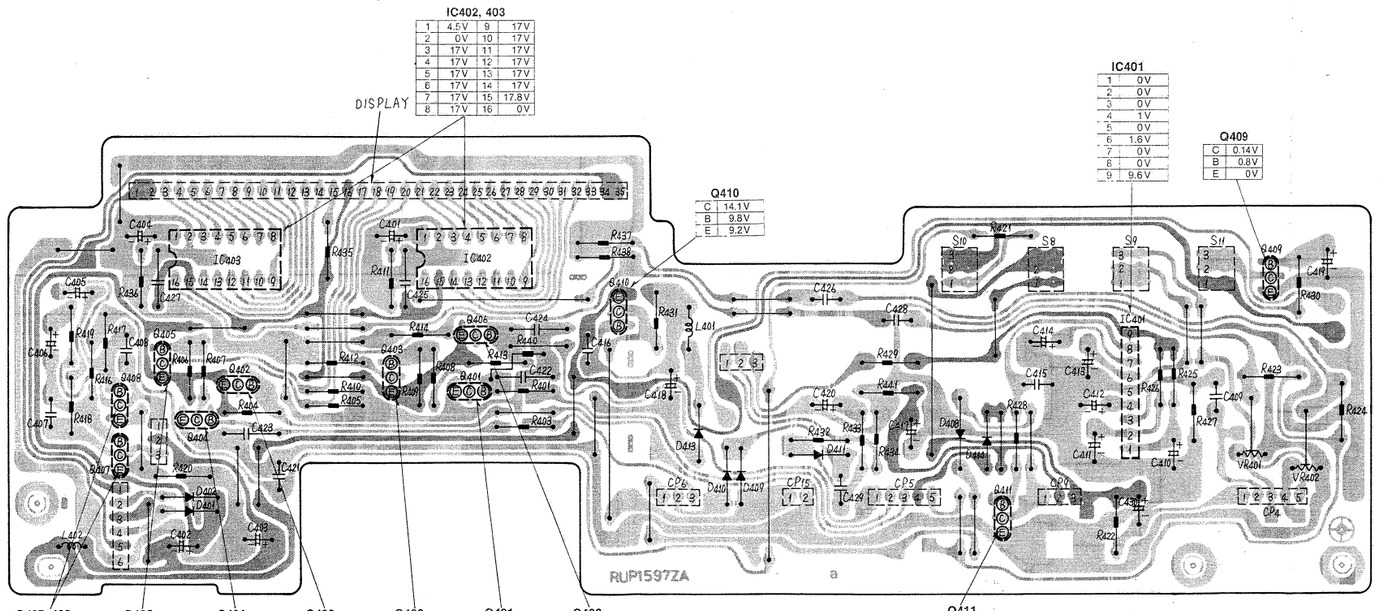


Notes:

1. S1-1 ~ S1-10: Band switch in "FM" position. (1...FM, 2...MW, 3...SW1, 4...SW2)
2. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery. ▭...FM position, ( )...MW position.

+ Ⓑ Voltage Line
Radio (FM) Signal Line

■ METER CIRCUIT BOARD



IC402, 403			
1	4.5V	9	17V
2	0V	10	17V
3	17V	11	17V
4	17V	12	17V
5	17V	13	17V
6	17V	14	17V
7	17V	15	17.8V
8	17V	16	0V

IC401	
1	0V
2	0V
3	0V
4	1V
5	0V
6	1.6V
7	0V
8	0V
9	9.6V

Q409	
C	0.14V
B	0.8V
E	0V

Q410	
C	14.1V
B	9.8V
E	9.2V

Q411	
C	16.9V
B	0V
E	0V

Q407, 408	
C	8.5V
B	0V
E	0.3V

Q405	
C	18.4V
B	17.8V
E	18.5V

Q404	
C	0V
B	0.6V
E	0V

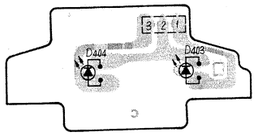
Q402	
C	18.4V
B	17.7V
E	18.5V

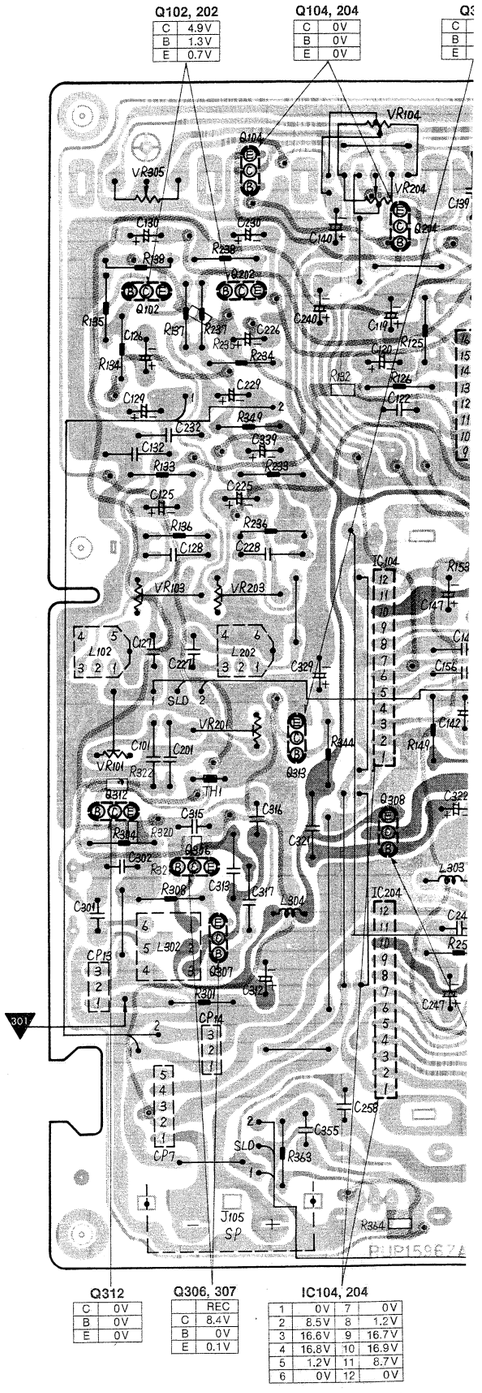
Q403	
C	18.2V
B	17.5V
E	18.2V

Q401	
C	0V
B	0.6V
E	0V

Q406	
C	18.4V
B	17.8V
E	18.4V

■ LED CIRCUIT BOARD





Q102, 202	
C	4.9V
B	1.3V
E	0.7V

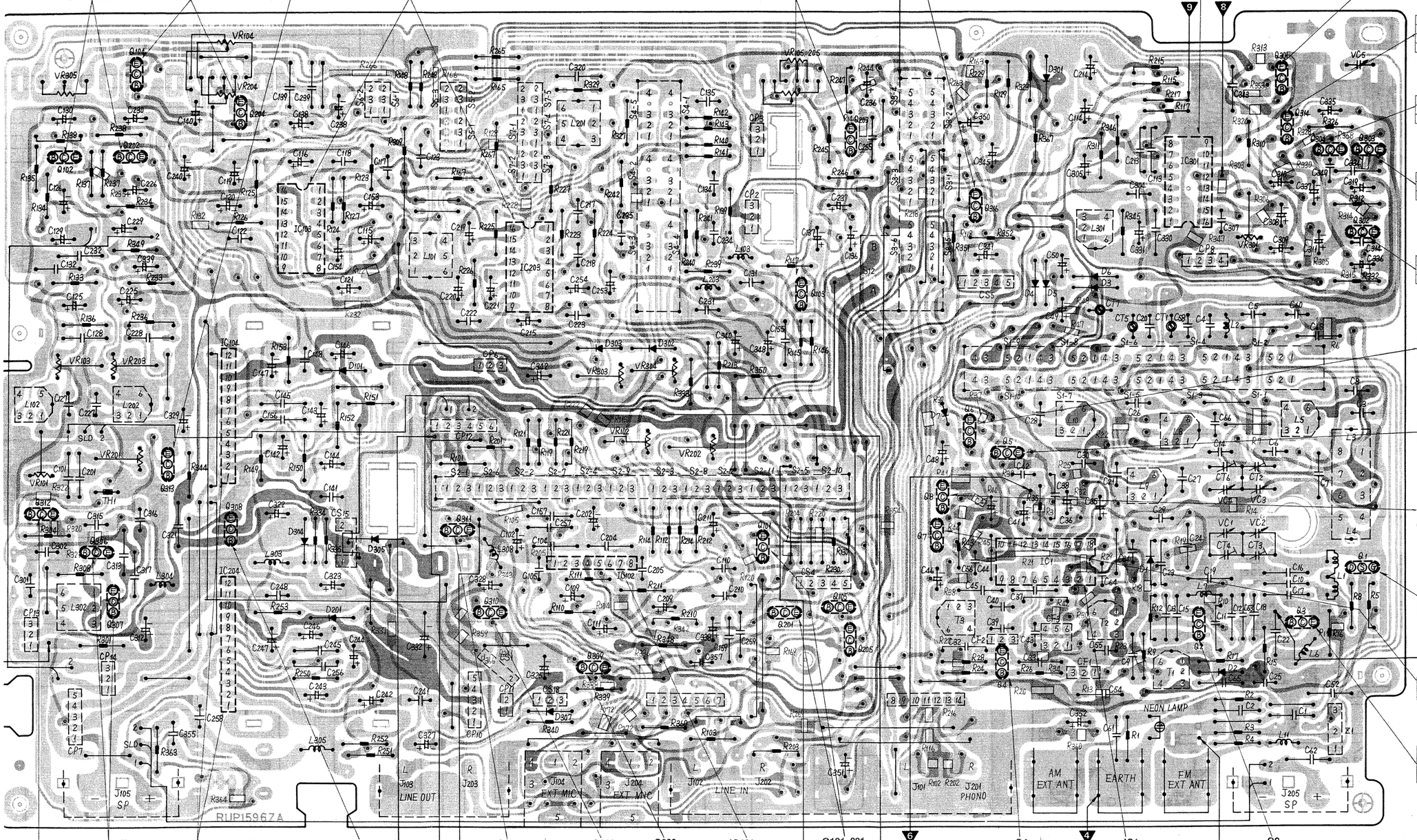
Q104, 204	
C	0V
B	0V
E	0V

Q312	
C	0V
B	0V
E	0V

Q306, 307	
C	REC
B	8.4V
E	0V
B	0.1V
E	

IC104, 204			
1	0V	7	0V
2	8.5V	8	1.2V
3	16.6V	9	16.7V
4	16.6V	10	16.9V
5	1.2V	11	8.7V
6	0V	12	0V

CIRCUIT BOARD (RADIO, AUDIO) MODEL RX-C100F



Q102, 202

C	4.9V
B	1.3V
E	0.7V

Q104, 204

C	0V
B	0V
E	0V

Q313

C	0V
B	0.7V
E	0V

IC103, 203

1	4.9V	9	0V
2	4.9V	10	4.9V
3	5.1V	11	5V
4	4.9V	12	4.9V
5	4.8V	13	0V
6	5V	14	4.9V
7	4.9V	15	4.8V
8	0V	16	9.8V

Q103, 203

C	4.3V
B	1V
E	0.4V

Q316

	REC
C	0V
B	0.6V
E	0V

IC301

	FM	AM		FM	AM
1	1.3V	1.3V	9	0V	0V
2	1.3V	1.3V	10	0.7V	0V
3	1.6V	1.6V	11	1.7V	1.5V
4	9.5V	9.5V	12	0.3V	4.3V
5	1.7V	1.7V	13	1.8V	0.9V
6	1.2V	0V	14	1.8V	1.8V
7	1.7V	1.7V	15	1.5V	0V
8	1.2V	0V	16	1.8V	1.8V

Q301

	FM	AM
C	0.7V	17.9V
B	1.3V	0V
E	0.7V	0V

Q314

	REC
C	0V
B	0.7V
E	0V

Q304

C	9.3V
B	3.4V
E	2.8V

Q303

C	3.4V
B	0.6V
E	0V

Q302

C	3.1V
B	0.7V
E	0.1V

Q6

C	5.7V
B	0V
E	0.1V

Q5

C	5.7V
B	0.3V
E	0V

Q8

C	0V
B	0V
E	0V

Q1

	FM
D	4.1V
G	0V
S	0V

Q7

C	3V
B	1.1V
E	0.5V

Q3

	FM
C	3V
B	1.5V
E	0V

Q312

C	0V
B	0V
E	0V

Q306, 307

	REC
C	8.4V
B	0V
E	0.1V

IC104, 204

1	0V	7	0V
2	8.5V	8	1.2V
3	16.6V	9	16.7V
4	16.6V	10	16.9V
5	1.2V	11	8.7V
6	0V	12	0V

Q308

C	14.1V
B	11.1V
E	10.4V

Q311

C	0V
B	0.6V
E	0V

Q310

C	9.2V
B	0V
E	0V

Q309

C	0.16V
B	9.25V
E	9.25V

IC102

1	1.4V	5	0V
2	0.9V	6	3.6V
3	3.7V	7	0.9V
4	9.5V	8	1.4V

Q101, 201

C	0V
B	0V
E	0V

Q4

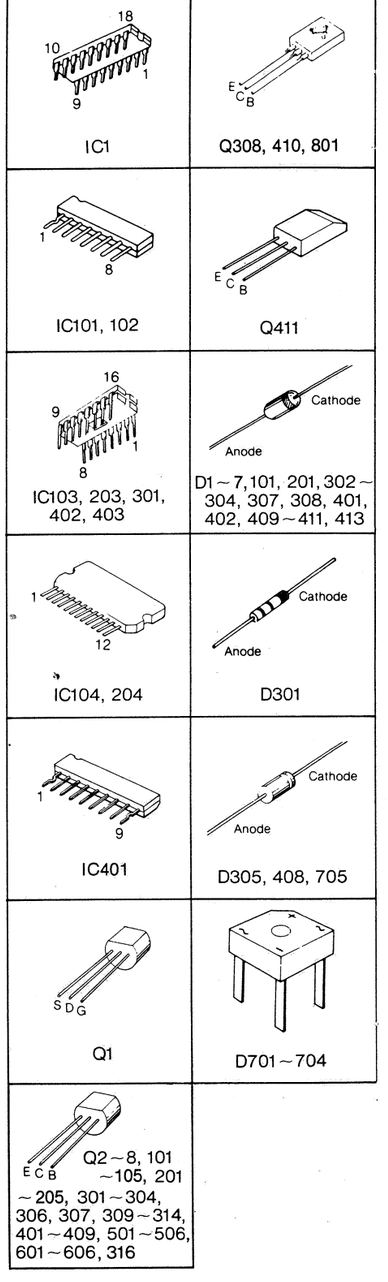
	FM
C	3.3V
B	0.7V
E	0V

IC1

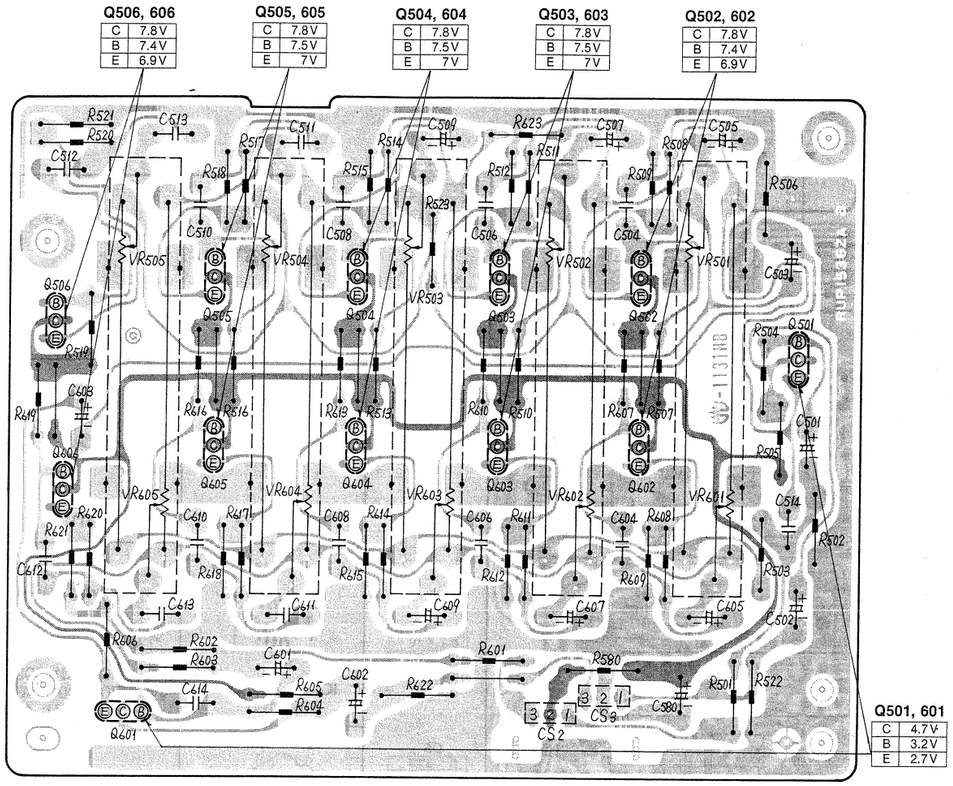
	FM	AM		FM	AM
1	0V	5.5V	10	4.7V	5.3V
2	0.3V	5.6V	11	5.6V	5.7V
3	0.3V	5.5V	12	4.8V	4.9V
4	4.9V	5.1V	13	4.4V	4.5V
5	5V	5.1V	14	0.3V	0.3V
6	5V	5.1V	15	0.3V	0.3V
7	5V	5.1V	16	0V	0V
8	0V	0V	17	0.3V	5.5V
9	5V	5.7V	18	0V	0.8V

Q2

	FM
C	4.4V
B	0.7V
E	0V



■ EQUALIZER CIRCUIT BOARD



■ ALIGNMENT POINT

* Please refer to Circuit Board which is located test point.

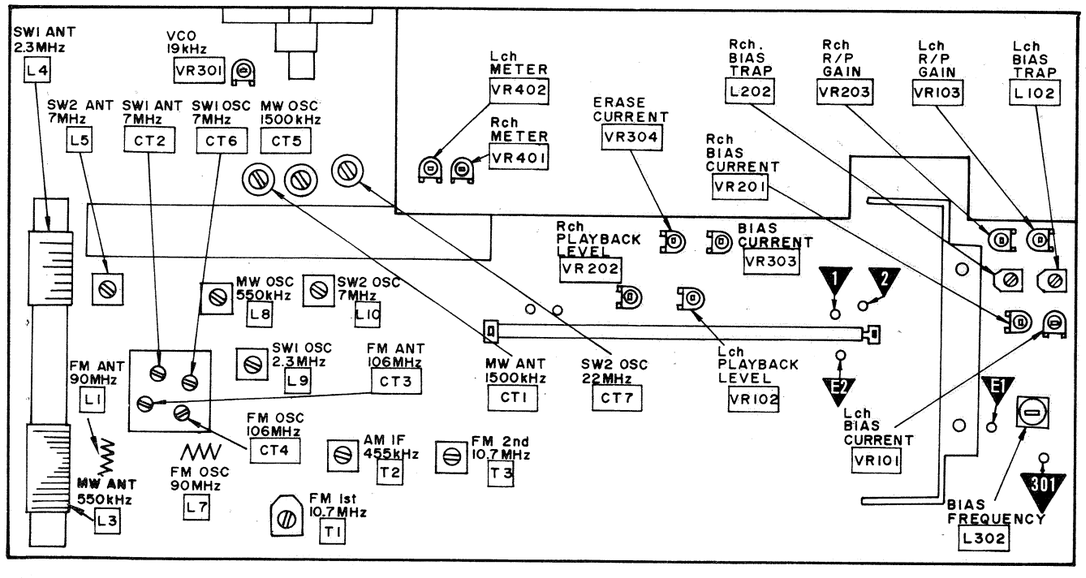
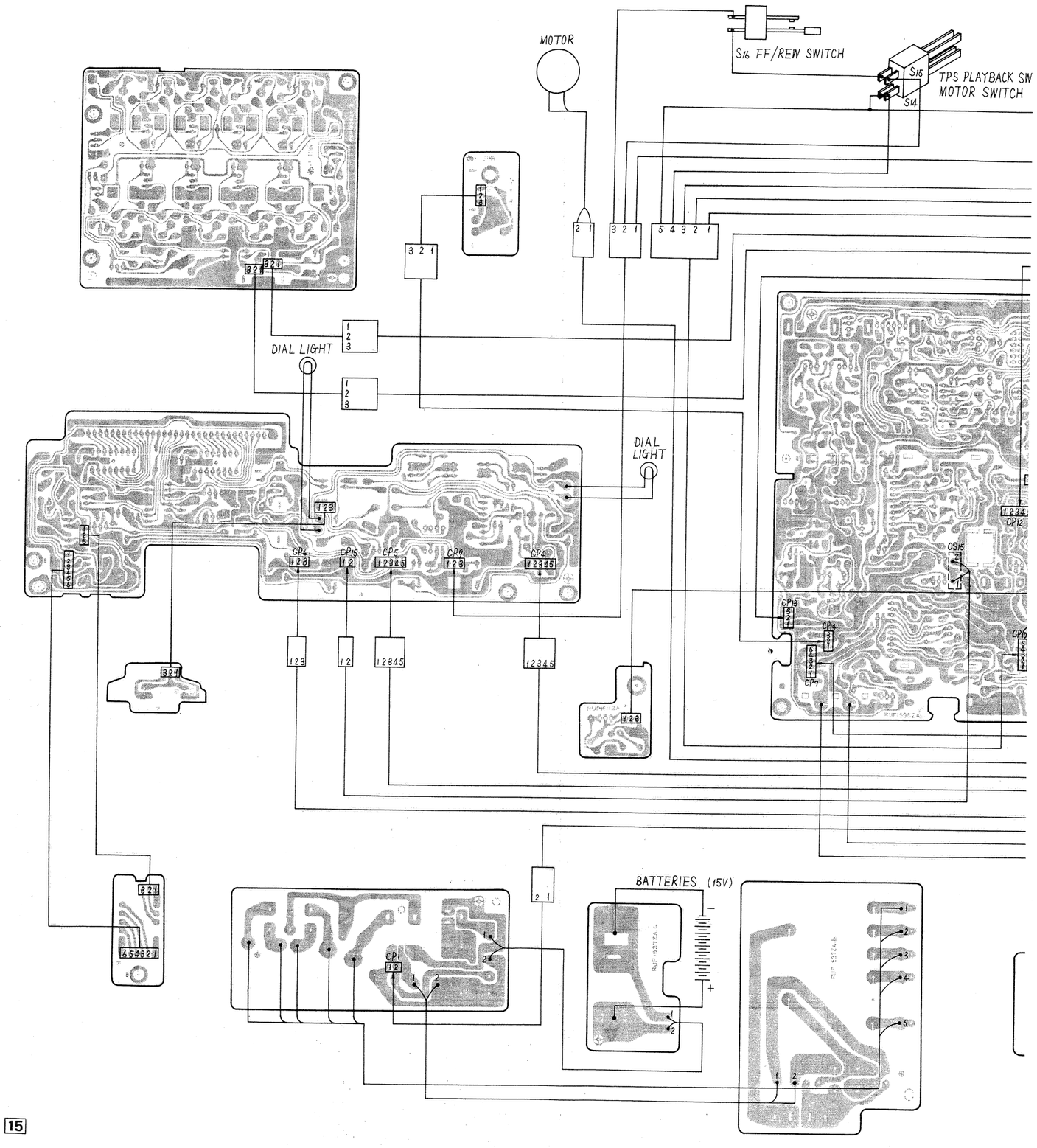
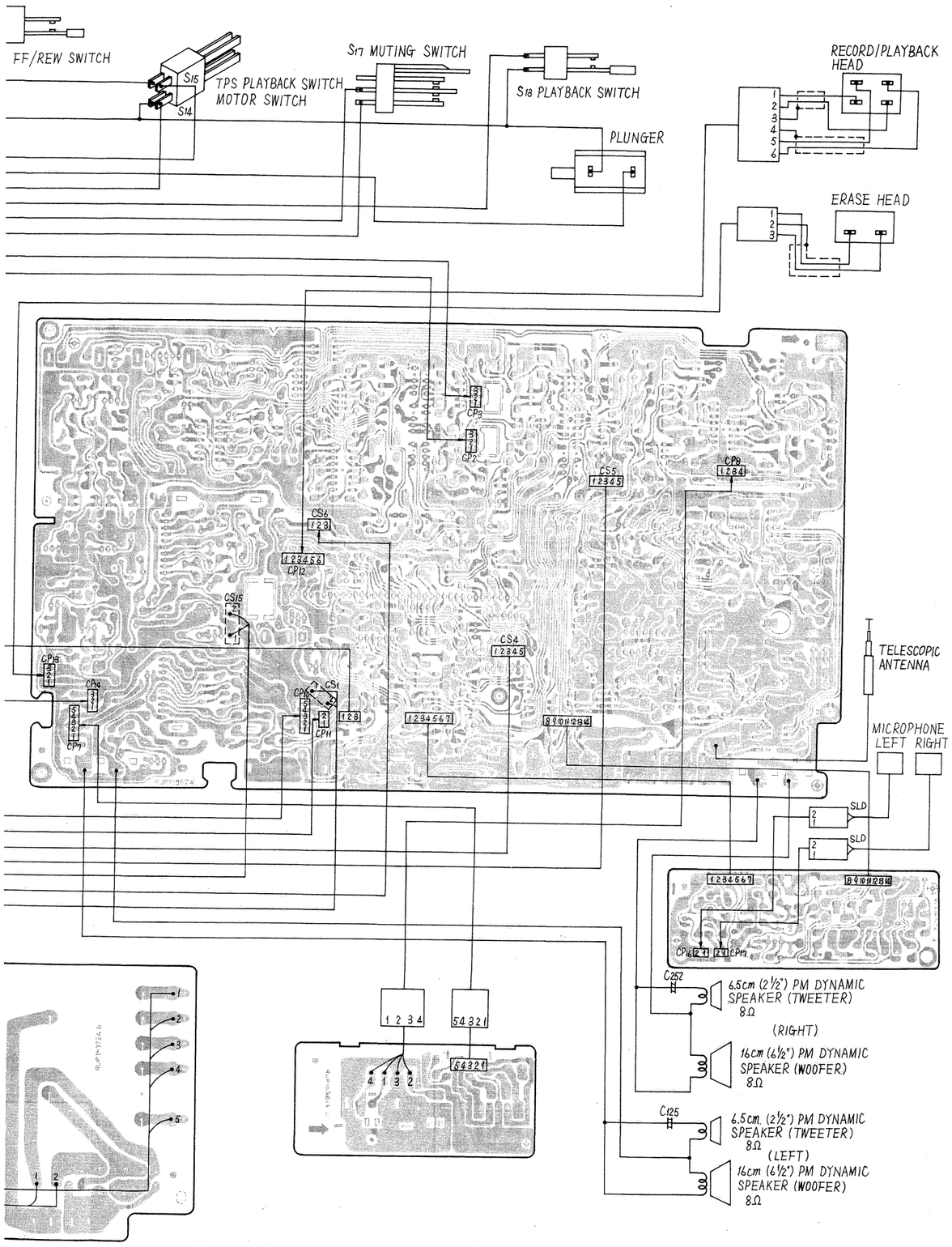


Fig. 20

WIRING CONNECTION DIAGRAM MODEL



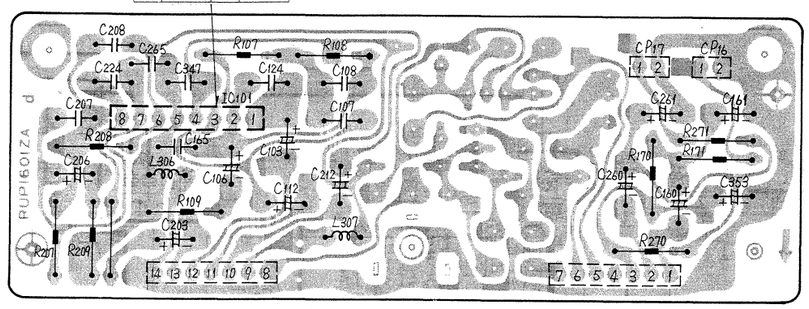
N DIAGRAM MODEL RX-C100F



■ PHONO CIRCUIT BOARD

IC101

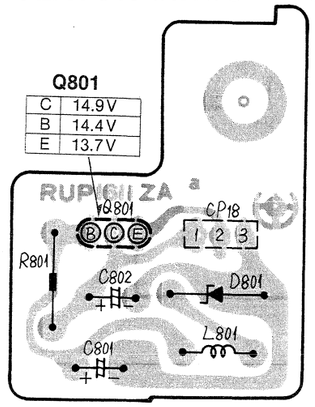
1	1.4V	5	0V
2	0.9V	6	4V
3	3.8V	7	0.9V
4	9.4V	8	1.4V



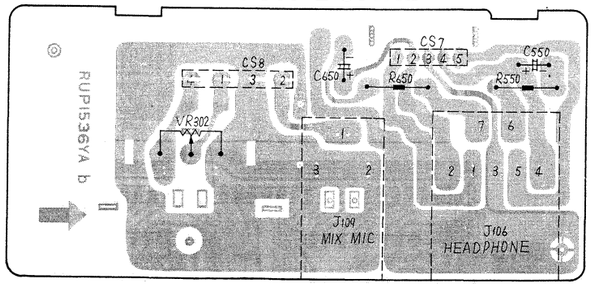
■ REGULATOR CIRCUIT BOARD

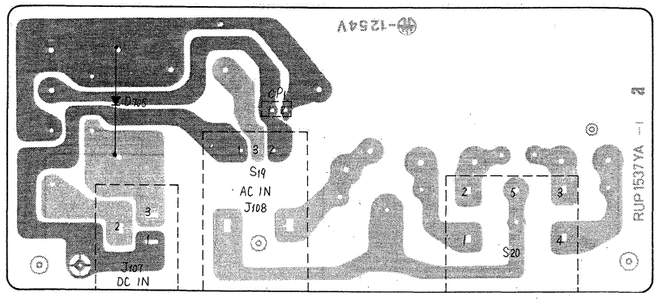
Q801

C	14.9V
B	14.4V
E	13.7V



■ JACK CIRCUIT BOARD





MECHANISM PARTS LOCATION

Fig. 21

MECHANISM PARTS LOCATION

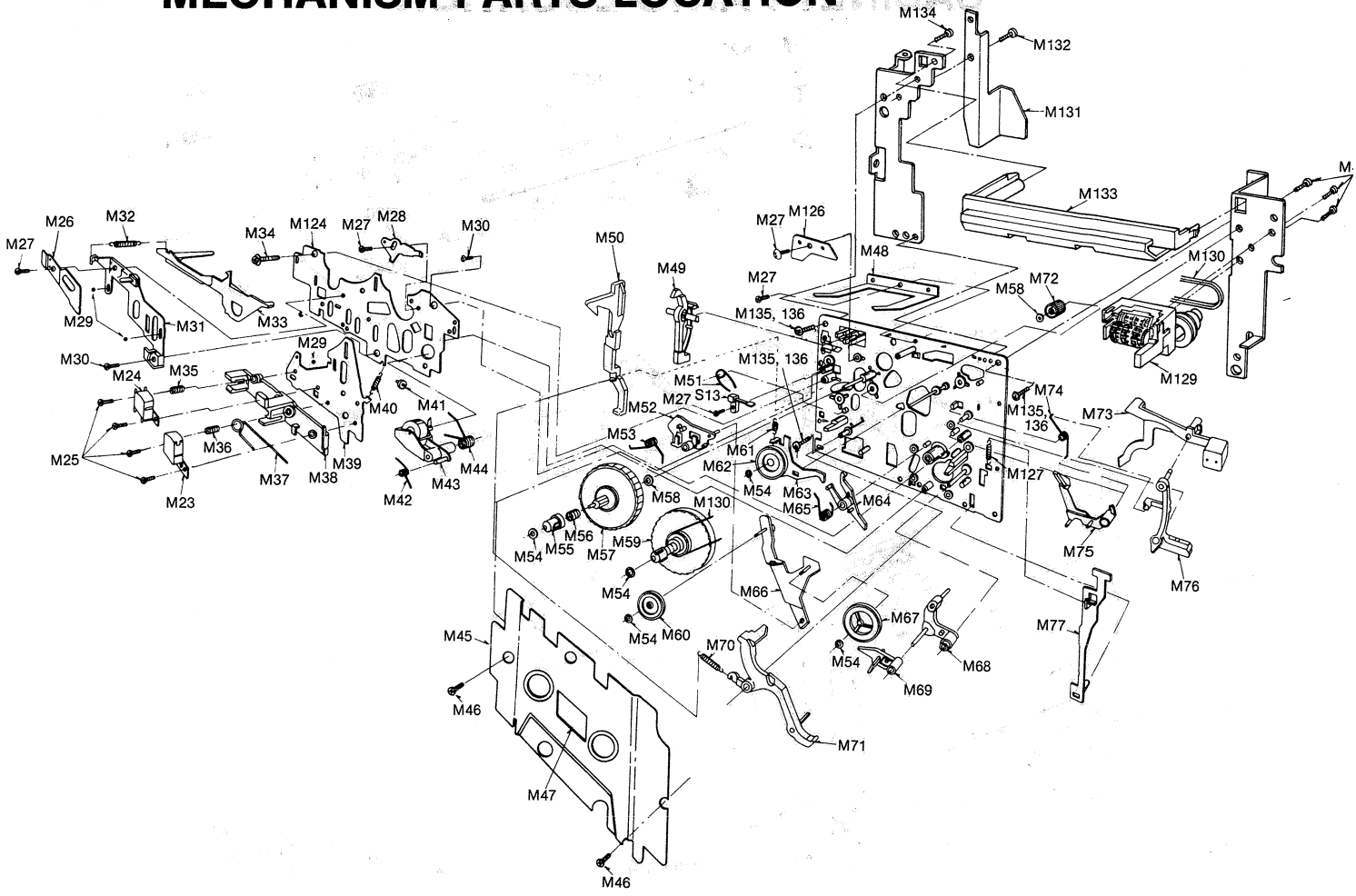


Fig. 22

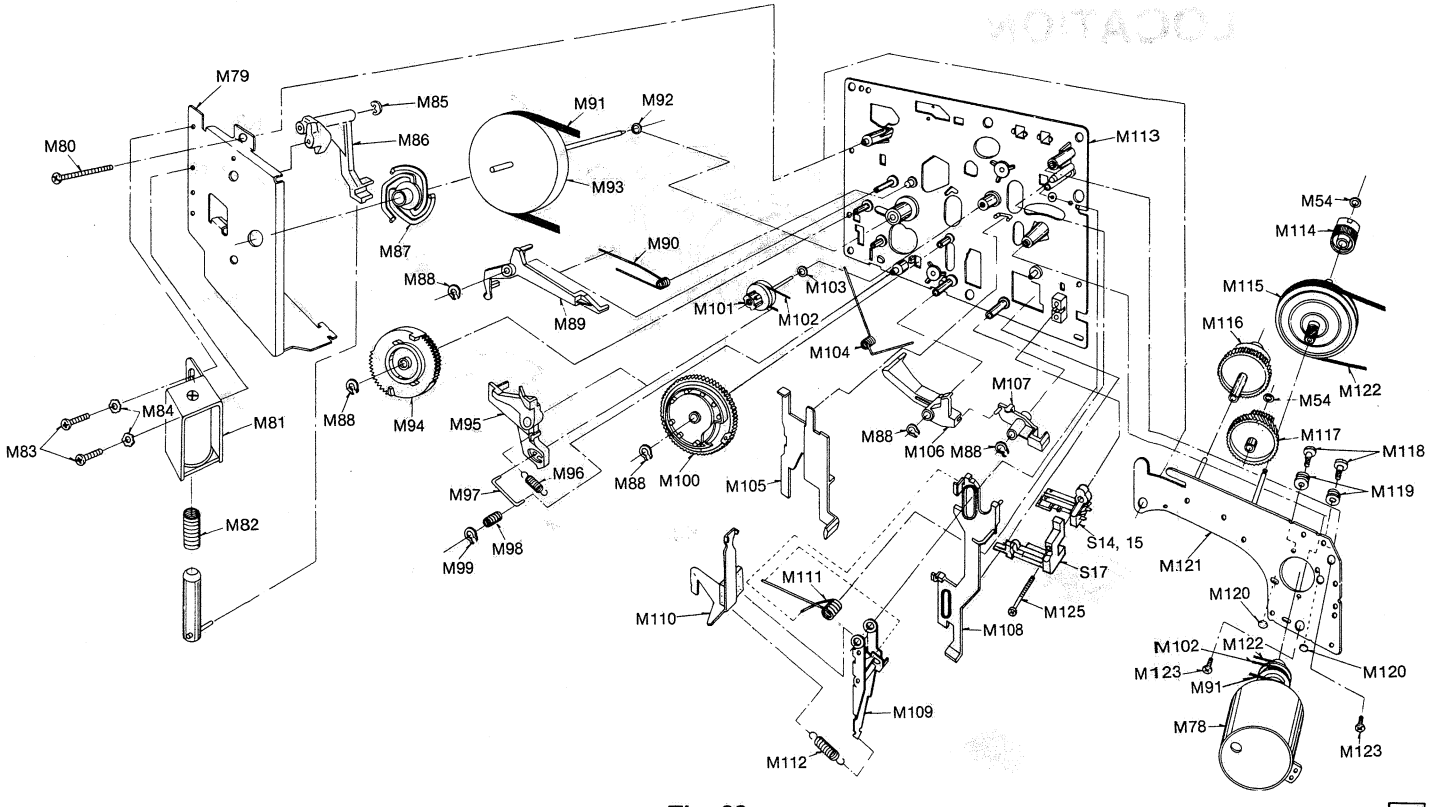


Fig. 23

CABINET PARTS LOCATION

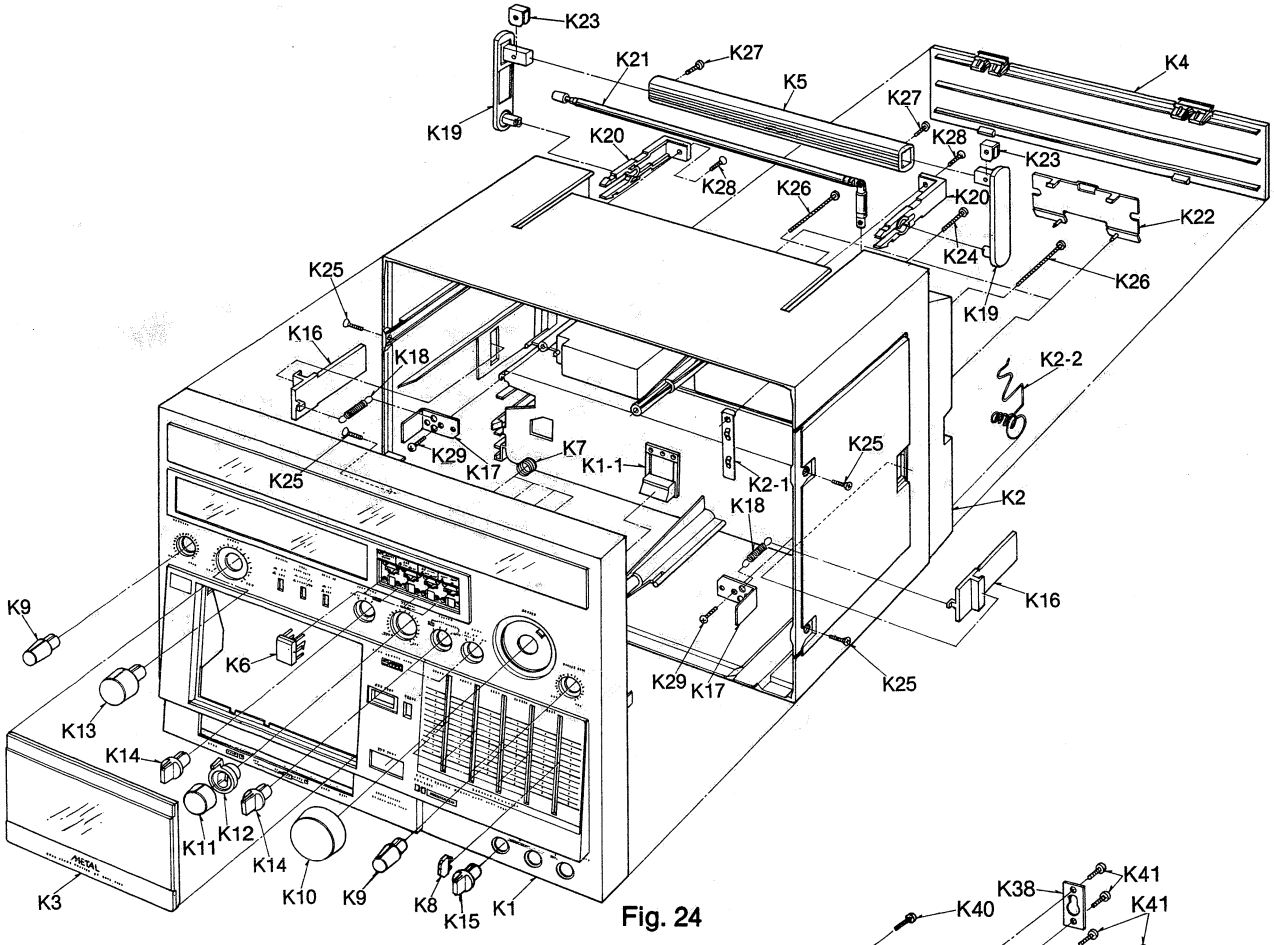


Fig. 24

SPEAKER BOX PARTS LOCATION

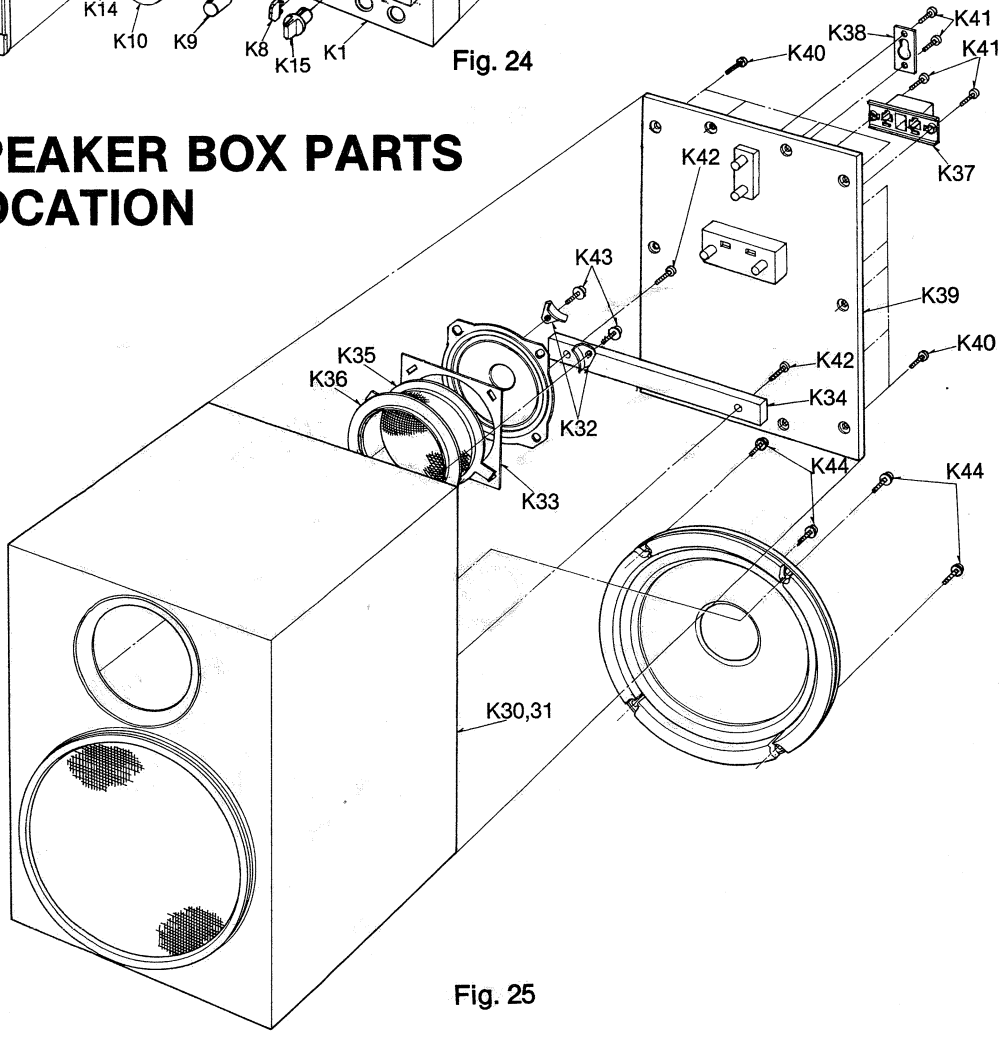


Fig. 25

ELECTRICAL PARTS LOCATION

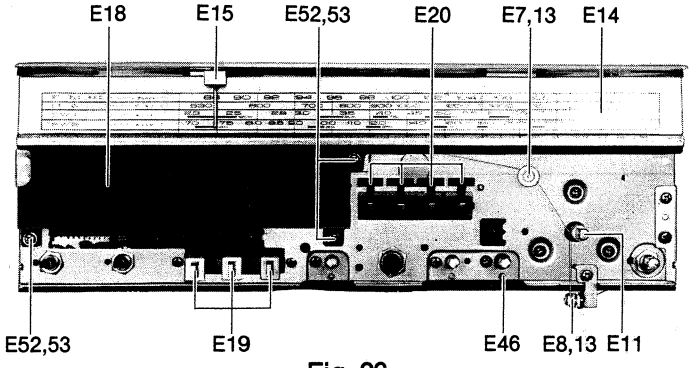


Fig. 26

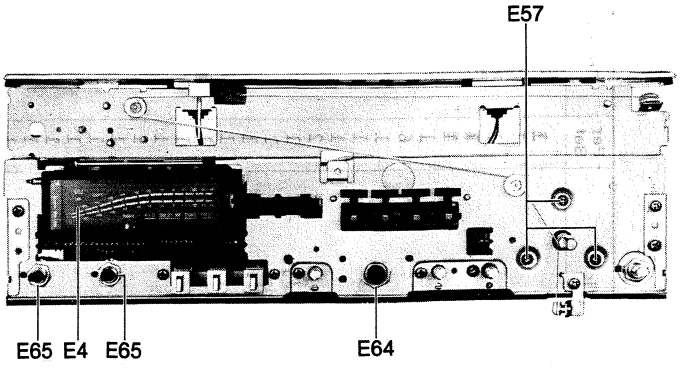


Fig. 27

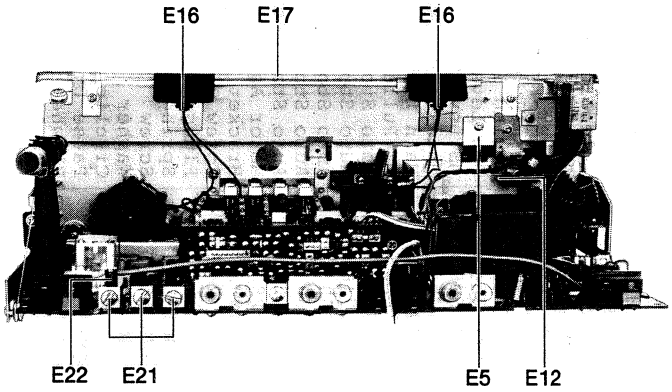


Fig. 28

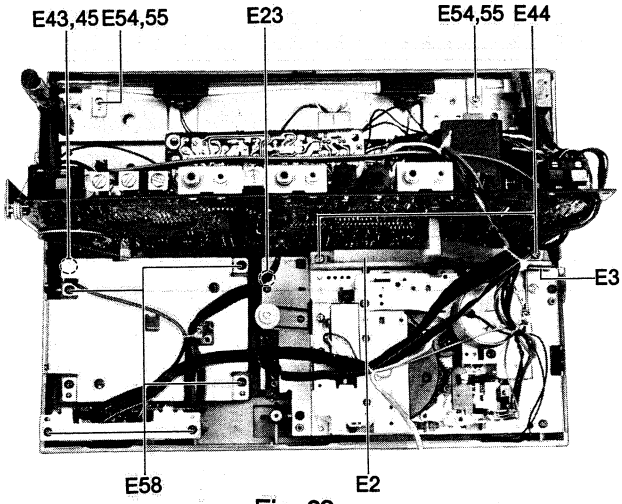


Fig. 29

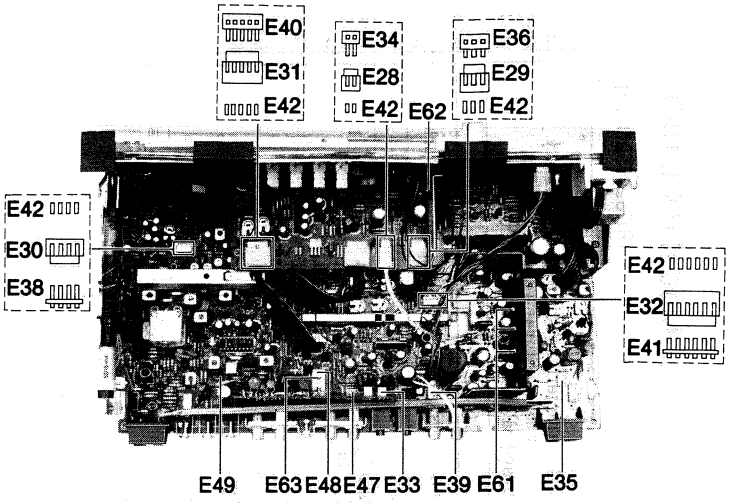


Fig. 31

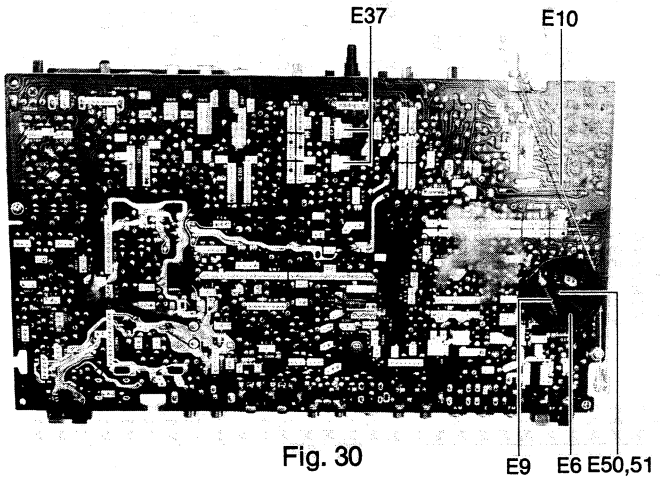


Fig. 30

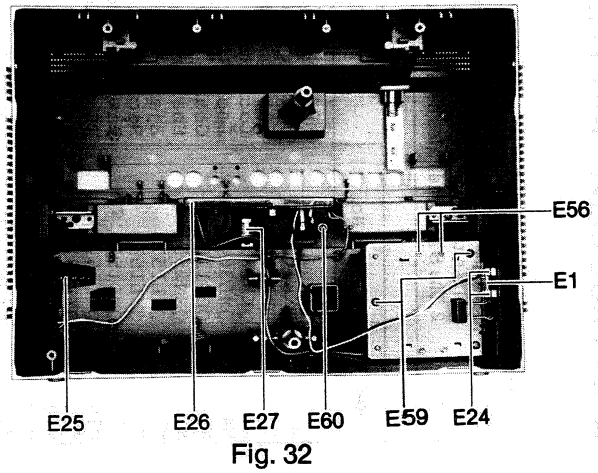


Fig. 32

■ REPLACEMENT PARTS LIST .....Model RX-C100F

(RD82055265C3)

NOTES: 1.Important safety notice.
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
2.The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		MECHANICAL PARTS		
M1	QXA1044	Button Bracket Ass'y	1	
M2	QBP1875	Spring, Operation Rod	1	
M3	QMR1823	Lock Rod	1	
M4	QML3649	Lock Arm	1	
M5	QDG1102	Gear, Slow Up	1	
M6	QMN2554	Shaft, Operation Rod	1	
M7	QXL1513	Eject Lever Ass'y	1	
M8	QXL1514	Rec Lever Ass'y	1	
M9	QXL1515	Rewind Lever Ass'y	1	
M10	QXL1516	FF Lever Ass'y	1	
M11	QXL1517	Play Lever Ass'y	1	
M12	QXL1518	Stop Lever Ass'y	1	
M13	QXL1519	Pause Lever Ass'y	1	
M14	RYQXC100FX1	Cassette Holder Ass'y (Silver)	1	
M14	RYQXC1001N	Cassette Holder Ass'y (Brown)	1	
M17	QBN1749	Spring, Cassette Slot	1	
M18	XUC5FT	Circlip	1	S
M19	XUC4FT	Circlip	2	S
M20	XTN26+6B	Screw	2	S
M21	QBT1597	Spring	1	
M22	XTN2+6B	Screw	1	S
M23	QWY4122Z	R/P Head	1	
M24	QWY2138Z	Erase Head	1	
M25	XSN2+9	Screw	4	
M26	QBP1873	Head Base Pressure Plate	1	
M27	XTN26+6B	Screw	7	S
M28	QMA3858	Head Plate	1	
M29	QDK1017	Steel Ball	3	
M30	XTN26+10B	Screw	2	S
M31	QMZ1240	Holder, Head Base	1	
M32	QBT1597	Spring	1	
M33	QML3591	Brake Arm	1	
M34	XTN26+12B	Screw	1	
M35	QBCA0008	Head Spring	1	
M36	QBC1278	Head Spring	1	
M37	QBN1740	Spring, R/P Head	1	
M38	QMZ1241	Head Spacer	1	
M39	QMK1840	Head Base Plate	1	
M40	QBT1892	Spring, Head Base Plate	1	
M41	QMN2550	Guide Roller	1	
M42	QBN1742	Spring, Pinch Roller	1	
M43	QXL1381	Pinch Roller Ass'y	1	
M44	QBN1743	Spring, Pinch Roller	1	
M45	RDH185Z	Cover	1	
M46	XTV26+6JFZ	Screw	5	
M47	RGX1130Z	Refrecting Plate	1	
M48	QBP1874	Cassette Holder Plate	1	
M49	QML3603	Safety Lever	1	
M50	QMR1822	Spring	1	
M51	QBN1747	Spring	1	
M52	QML3588	FF Spring Lever	1	
M53	QBN1748	FF Spring	1	
M54	QBW2008	Washer	6	
M55	QMB1336	Supply Drive Cam	1	
M56	QBC1306	Back Tension Spring	1	
M57	QDR1139	Supply Reel Table	1	
M58	QBW2012	Washer	2	
M59	QXD1143	Take Up Reel Table Ass'y	1	
M60	QXI0113	FF Idler Ass'y	1	
M61	QBT1893	Take Up Idler Spring	1	
M62	QXI0111	Take Up Idler Ass'y	1	
M63	QXL1382	Idler Lever Ass'y	1	
M64	QML3592	Change Lever	1	
M65	QBN1741	Lever Spring	1	
M66	QXL1383	FF Arm Ass'y	1	
M67	QXI0112	Rewind Idler Ass'y	1	
M68	QXL1354	Sub Lever Ass'y	1	
M69	QML3586	MS Lever	1	
M70	QBT1894	Main Lever Spring	1	
M71	QXL1355	Main Lever Ass'y	1	
M72	QDP1828	FF Pulley	1	
M73	QML3605	Auto Stop Detector Lever	1	
M74	QBN1746	Auto Stop Lever Spring	1	
M75	QML3594	Auto Stop Release Lever	1	
M76	QML3604	Auto Stop Driver Lever	1	
M77	QMR1821	Auto Stop Connection Rod	1	
M78	QXU0282	Motor Ass'y	1	
M79	QXA1042	Bracket Ass'y Plunger	1	
M80	XTN3+24B	Screw	1	
M81	QME0157	Plunger	1	
M82	QBC1358	Spring	1	
M83	XSN3+6S	Screw	2	S
M84	XWC3B	Washer	2	S
M85	XUC3FT	Circlip	1	S
M86	QML3616	Pause Driving Lever	1	
M87	QMZ1239	Flywheel Thrust Retainer	1	
M88	XUB3FT	Circlip	5	S
M89	QML3581	Sub Operation Lever	1	
M90	QBN1744	Sub Gear Spring	1	
M91	QDB0281	Capstan Belt	1	
M92	QBW2049	Washer	1	
M93	QXF0164	Flywheel Ass'y	1	
M94	QDG1202	Sub Gear	1	
M95	QML3582	Pause Lock Lever	1	
M96	QBT1896	Lever Spring	1	
M97	QBS1128	Lock Pin	1	
M98	QBC1357	Lock Pin Spring	1	
M99	XUB4FT	Circlip	1	S
M100	QDG1201	Main Gear	1	
M101	QXP0607	FF Belt Pulley Ass'y	1	
M102	QDB0274	Rewind Belt	1	
M103	QBW2012	Washer	1	

NOT FOR PUBLICATION

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M104	QBN1745	Main Gear Spring	1	
M105	QMR1824	Control Rod	1	
M106	QML3583	Main Operation Lever	1	
M107	QML3584	Reverse Lever	1	
M108	QMR1820	Record Rod	1	
M109	QXL1360	R/P Selector Arm Ass'y	1	
M110	QML3580	R/P Selector Lever	1	
M111	QBN1739	Selector Lever Spring	1	
M112	QBT1895	R/P Pressure Spring	1	
M113	QXK2276	Lower Base Plate	1	
M114	QDP1823	Connection Pulley	1	
M115	QXG1047	Take Up Gear Ass'y	1	
M116	QDG1200	Cam Gear	1	
M117	QDG1199	Auto Stop Gear	1	
M118	QHQ1303	Screw	2	
M119	QBG1373	Cushion	1	
M120	QBG1683	Cushion	1	
M121	QXK2286	Sub Chassis Ass'y	1	
M122	QDB0273	Fast Forward Belt	1	
M123	XTN3+10B	Screw	2	S
M124	QMK1838	Upper Deck	1	
M125	XTN2+20F	Screw	1	
M126	QMF2118	Fitting Plate	1	
M127	QBT1682	Lock Spring	1	
M128	QBW2020	Washer	1	
M129	RSE90Z	Counter	1	
M130	QDB^207	Belt	1	
M131	RUB264Z	Lever	1	
M132	RHD100Z	Screw, Lever M'tg	1	
M133	RKE406Z	Cover, Mechanism (Silver)	1	
M133	RKE406Z1	Cover, Mechanism (Brown)	1	
M134	XTV3+10G	Screw, Cover M'tg	1	
M135	XSN3+6S	Screw, Bracket M'tg	4	S
M136	XWG3	Washer	4	S
		INTEGRATED CIRCUITS, TRANSISTORS AND DIODES		
IC1	AN7220A	IC	1	
IC101	RVIBA328MR	IC	1	
IC102	RVIBA328	IC	1	
IC103,203	RVINE649N	IC	2	
IC104,204	RVIUPC1277HV	IC	2	
IC301	RVIBA1355	IC	1	
1C401	RVIBA338	IC	1	
IC402,403	RVIBA6146	IC	2	
Q1	2SK195H1	Transistor (Si)	1	
Q2,4	2SC1359B	Transistor (Si)	2	S
Q3	2SC1674L	Transistor (Si)	1	
Q5∿7,102, 105,202, 301,304, 314,316,	104, 204,205, 310,311, 401,404			
	2SC1685-Q	Transistor (Si)	17	S
Q8,501∿506,601∿606				
	2SC1684S	Transistor (Si)	13	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
Q101,201,	312,313			
	2SC2001K2	Transistor (Si)	4	
Q103,203	2SC1684HR	Transistor (Si)	2	
Q302,303	2SC1684HS	Transistor (Si)	2	
Q306,307,	407∿409			
	2SC1317NCR	Transistor (Si)	5	
Q308,410	2SD1266R	Transistor (Si)	2	
Q309,402,	403,405,406			
	2SA722-S	Transistor (Ge)	5	S
Q411	2SD471L	Transistor (Si)	1	
Q801	2SC1847Q	Transistor (Si)	1	S
D1	RVDSD113	Diode (Si)	1	S
D2∿7,101, 401,402,	201,307, 409,414			
	MA161	Diode (Si)	13	S
D301	MA1056	Diode (Si)	1	S
D302,303,	410			
	MA27WA	Diode (Si)	3	
D304	MA1110	Diode (Si)	1	
D305,408	SM112	Diode (Si)	2	S
D403,404	LN02273P	LED (Ga)	1	
D411	RVDRD7R5FB	Diode (Si)	1	S
D413	RVDRD10EB2	Diode (Si)	1	
D701∿704	RVDS4VB10F	Diode (Si)	1	
D705	RVDERD0302LF	Diode (Si)	1	
D801	MA1180	Diode (Si)	1	
		THERMISTOR		
TH1	RRT202	Thermistor	1	
		COILS AND TRANSFORMERS		
L1	RLO4Y26	Coil, FM Antenna	1	
L3,4	RLF5D18	Coil, MW, SW1 Antenna	1	
L5	RLA3M62	Coil, SW2 Antenna	1	
L7	RLO4Y27	Coil, FM Oscillator	1	
L8	RLO2M14	Coil, MW Oscillator	1	
L9	RLO3M18	Coil, SW1 Oscillator	1	
L10	RLO3M75	Coil, SW2 Oscillator	1	
L101,201	RLE5029	Coil, Dolby	2	
L102,202	QLQM1531	Coil, Bias Trap	2	
L103,203	RLQZ8221	Coil, Choke	2	
L301	QLM1M2	Coil, MPX	1	
L302	RLO9C23	Coil, Bias Oscillator	1	
T1,3	RLI4M101	IFT, FM	2	S
T2	QLI2M102M	IFT, MW	1	
T401	RLT9F3A	DC/DC Converter	1	
T701	RLT5M5Z1C	Power Transformer	1	⚠
		VARIABLE RESISTORS		
VR101,201	EVNM4AA00B15	Variable Resistor, Preset, 100kΩ (B)	2	S
VR102,202	EVNM4AA00B24	Variable Resistor, Preset, 20kΩ (B)	2	S
VR103,203	,401,402			
	EVNM4AA00B54	Variable Resistor, Preset, 50kΩ (B)	4	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
VR104,204	EWCTNAF15B54	Variable Resistor, 50kΩ (B)	1	
VR105,205	RVV2B5B24	Variable Resistor, 20kΩ (B)	1	
VR301	EVNM4AA00B14	Variable Resistor, Preset, 10kΩ (B)	1	S
VR302	EWHFWAF15A14	Variable Resistor, 10kΩ (A)	1	
VR303,304	EVNM4AA00B53	Variable Resistor, Preset, 5kΩ (B)	2	S
VR305	EWHFXAF15G54	Variable Resistor, 50kΩ (G)	1	
VR501∿505,601∿605	EVBU02D20G54	Variable Resistor, 50kΩ (G)	5	
		VARIABLE CAPACITORS		
VC1∿4	RCV4RC7VK	Tuning Capacitor, w/Trimmer Capacitor (CT2,4,6,8)	1	
VC5	RCVMH8NC15	Fine Tuning	1	
CT1,5,7	RCVTZ11F	Trimmer Capacitor	3	
		CERAMIC FILTERS		
CF1,2	RVF107MTWAR	Ceramic Filter	2	
CF3	RVFSFZ455A	Ceramic Filter	1	
		COMPONENT COMBINATION		
Z1	RXABPMF4W	Component Combination	1	
		SPEAKERS		
	EAS16PL216S	Speaker, 16cm (6-1/2"), 8Ω, Woofer	2	
	EAS65PH64S	Speaker, 6.5cm (2-1/2"), 8Ω, Tweeter	2	
		SWITCHES		
S1	RSR4J05Z	Switch, Band	1	
S2	RSH2L07Z	Switch, Record/Playback	1	
S3,12	RSR4F04Z	Switch, Function	1	
S4	RSR3F07Z	Switch, Tape	1	
S5∿7	RSHX044Z	Switch, Mode, Loudness, Dolby NR	1	
S8∿11	RSHX043Y	Switch, TPS, FM Muting, FL Meter etc.	1	
S13	QSB0275	Switch, Playback	1	
S14,15	QSB0254	Switch, Motor, TPS Play	1	
S16	QSB0253	Switch, Play, FF/REW	1	
S17	RSH2A10Z	Switch, Muting	1	
S18	RSH2A02Z	Switch, Rec Mute	1	
S20	RSR4A07Z	Switch, Voltage Selector	1	⚠
		JACKS		
J101,102,201,202	RJF1086Z	Jack, Phono/Line In	1	
J103,203	RJF1087Z	Jack, Line Out	1	
J104,204	RJJ1D7Z	Jack, Microphone	2	
J105,205	RJF1088Z	Jack, Speaker Socket	2	
J106	RJJ1E2Z	Jack, Headphone	1	
J107,108	RJJ1F1Z	Jack, AC/DC IN	1	⚠
J109	RJJ1E7Z	Jack, Mixing	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		RESISTORS (Value is in OHMS)		
R308,420	ERD25FJ2R2	2.2 1/4W Carbon	2	S
R17,311,348	ERD25FJ470	47 " "	3	S
R149,153,249,253,301	ERD25FJ1R0	1 " "	5	S
R101,201	ERD25FJ100	10 " "	2	S
R367	ERD25FJ150	15 " "	1	S
R150,151,171,250, 251,271,323,332, 433,503,580,603	ERD25FJ101	100 " "	12	S
R2,28,143,165, 265,352,360,435	ERD25FJ102	1 k " "	8	S
R4,107,115,129,136, 152,207,215,229, 236,252,411,436	ERD25FJ103	10 k " "	13	S
R1,3,108,167, 208,267,329,401, 403,404,406,409, 413,437,438,513, 519,613,619	ERD25TJ104	100 k " "	19	S
R127,227	ERD25TJ105	1 M " "	2	S
R139,239,349,350	ERD25FJ151	150 " "	4	S
R312	ERD25TJ155	1.5 M " "	1	S
R119,219	ERD25FJ183	18 k " "	2	S
R126,134,226,234	ERD25TJ184	180 k " "	4	S
R5,8	ERD25FJ220	22 " "	2	S
R9,170,270	ERD25FJ222	2.2 k " "	3	S
R12,24,407, 408,425,426	ERD25TJ224	220 k " "	6	S
R111,211	ERD25FJ270	27 " "	2	S
R133,233,333	ERD25FJ272	2.7 k " "	3	S
R121,221	ERD25FJ273	27 k " "	2	S
R125,225	ERD25TJ274	270 k " "	2	S
R147,247,334,432, 511,514,517,520, 611,614,617,620	ERD25FJ331	330 " "	12	S
R124,141,142,224,241, 242,327,344,346, 502,506,602,606	ERD25FJ332	3.3 k " "	13	S
R103,135,203	ERD25FJ333	33 k " "	3	S
R114,214,505,605	ERD25FJ392	3.9 k " "	4	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R26,109,209, 309,523,623	ERD25FJ471	470 1/4W Carbon	6	S
R112,117,137,140,146, 148,212,213,217,237, 240,246,248,416,417, 430,522,622	ERD25FJ472	4.7 k " "	18	S
R123,223	ERD25FJ473	47 k " "	2	S
R15,43,326	ERD25TJ474	470 k " "	3	S
R339,340,427	ERD25FJ562	5.6 k " "	3	S
R130,230,351	ERD25FJ563	56 k " "	3	S
R304	ERD25FJ681	680 " "	1	S
R35,345,509,512, 515,518,521,609, 612,615,618,621	ERD25FJ682	6.8 k " "	12	S
R310	ERD25TJ683	68 k " "	1	S
R145,245,405,410, 412,414,504,604	ERD25TJ684	680 k " "	8	S
R16,138,238,335,431	ERD25FJ821	820 " "	5	S
R110,210,516,616	ERD25TJ823	82 k " "	4	S
R418,419,441	ERD25FJ122	1.2 k " "	3	S
R429,434	ERD25FJ152	1.5 k " "	2	S
R422	ERD25FJ153	15 k " "	1	S
R428	ERD25FJ221	220 " "	1	S
R423,424	ERD25FJ223	22 k " "	2	S
R421	ERD25FJ561	560 " "	1	S
R507,510,607,610	ERD25TJ124	120 k " "	4	S
R550,650	ERD25FJ271	270 " "	2	S
R508,608	ERD25FJ391	390 " "	2	S
R501,601	ERD25FJ822	8.2 k " "	2	S
R801	ERD25FJ821	820 " "	1	S
R440	ERD25TJ334	330 k " "	1	S
		CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)		
C3	ECCD1H030C	3 P 50V Ceramic	1	
C60	ECCD1H020C	2 P " "	1	
C20,21	ECCD1H070DC	7 P " "	2	
C58	ECCD1H040C	4 P " "	1	
C4,14	ECCD1H100KC	10 P " "	2	
C6	ECCD1H050CC	5 P " "	1	
C5	ECCD1H150KC	15 P " "	1	
C43	ECCD1H470KC	47 P " "	1	
C165,265,514,614	ECCD1H101K	100 P " "	4	
C429	ECKD1H332MD	0.0033 " "	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C25,347,701~704	ECKD1H103ZF	0.01 50V Ceramic	6	
C316	ECKD1H222MD	0.0022 " "	1	
C315,508,608	ECKD1H472MD	0.0047 " "	3	
C64,314,349	ECKD1H102MD	0.001 " "	3	
C105,205,124, 224,512,612	ECKD1H471KB	470 P " "	6	
C409,510,610	ECKD1H152MD	0.0015 " "	3	
C127,227	ECQS2B331JZ	330 P 125V Styrol	2	
C307	ECQS2B471JZ	470 P " "	1	
C301	ECQS2B472KB	4700 P " "	1	
C302	ECQG05104JZ	0.1 50V Polyester	1	
C135,141,148,235, 241,248,258	ECQG05224JZ	0.22 " "	7	
C27	RCQP2A152JZ	1500 P 100V "	1	
C26	RCQP2A361JZ	360 P " "	1	
C28	RCQP2A472JZ	4700 P " "	1	
C131,231,506, 513,606,613	ECFT1E153MD	0.015 25V Semi-Conductor	6	
C8,42,56,415	ECFT1E223MD	0.022 " "	4	
C118,218	ECFT1E273KA	0.027 " "	2	
C30,34,55,108, 110,208,210	ECFT1E333MD	0.033 " "	7	
C117,217	ECFT1E472KA	0.0047 " "	2	
C29,122,134,222,234, 304,407,408,426,428, 504,511,604,611	ECFT1E473MD	0.047 " "	14	
C123,223	ECFT1E562KA	0.0056 " "	2	
C39,40,416,421	ECFT1E683MD	0.068 " "	4	
C107,207	ECFT1E103MD	0.01 " "	2	
C35,47,109,142, 147,209,242,247, 336,339,348,417	ECEA1AS101	100 10V Electrolytic	12	C
C329,345	ECEA0JS102	1000 6.3V "	2	S
C352	ECEA0JS222	2200 " "	1	S
C106,144,146,206, 244,246,340,353	ECEA1AS470	47 10V "	8	S
C305,338,580	ECEA1AS221	220 " "	3	S
C327,328	ECEA1CS330	33 16V "	2	S
C116,402,420	ECEA1AS471	470 10V "	3	S
C312,322,323,802	ECEA1ES101	100 25V "	4	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C48,102,103,114, 121,130,153,202, 203,214,221,230, 253,331,337,401, 404,413,419,503, 550,603,650,801	ECEA1HS100	10 50V Electrolytic	24	S
C342	ECEA1CS102	1000 16V "	1	S
C325	ECEA1ES221	220 25V "	1	S
C111,112,126,129 137,211,212,226, 229,237,430	ECEA50Z3R3	3.3 50V "	11	S
C36,49,50, 154,254,414	ECEA25Z4R7	4.7 25V "	6	S
C143,243	ECEA1ES470	47 " "	2	S
C160,260,308,405, 406,411,509,609	ECEA1HSR22	0.22 50V "	8	
C115,119,215, 219,319,410	ECEA1HSR33	0.33 " "	6	
C309,507,607	ECEA50ZR47	0.47 " "	3	S
C41,120,138,161, 220,238,261,311	ECEA1HS0R1	0.1 " "	8	
C46,125,136,140, 225,236,240,310, 335,341,350,351, 412,501,502,505, 601,602,605	ECEA50Z1	1 " "	19	S
C403	ECEA1AS102	1000 10V "	1	S
C418	ECEA1CS221	220 16V "	1	S
C332	ECES1EV472	4700 25V "	1	
C1,2,9,32,33, 157,159,257,259, 321,343,422,423	ECBS1C103NY	0.01 16V Ceramic	13	
C139,239	ECBS1E152MX	0.0015 25V "	2	
C18	ECBS1H1R0ML	1.0 50V "	1	
C13	ECBS1H100JC	10 P " "	1	
C44,101,201	ECBS1H101JL	100 P " "	3	
C10,11,24,54,61, 145,155,156,245, 255,256,334	ECBS1H102KB	0.001 " "	12	
C15,23	ECBS1H150JC	15 P " "	2	
C7,12,16	ECBS1H180JC	18 P " "	3	
C17	ECBS1H3R3KC	3.3 P " "	1	
C37,52,53,62,63	ECBS1H331KB	330 P " "	5	
C22,330	ECBS1H391KB	390 P " "	2	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C19	ECBS1H4R7KC	4.7 P 50V Ceramic	1	
C45	ECBS1H560JL	56 P " "	1	
C104,204	ECBS1H681KB	680 P " "	2	
C65,313	ECBT1E103MM	0.01 25V "	2	
C320,424,425,427	ECBT1E103NM	0.01 " "	4	
C38,113,213	ECBT1E223MM	0.022 " "	3	
C128,132,228,232,317	ECBT1H222MM	0.0022 50V "	5	
C152,252	ECEA50N3R3	3.3 " Electrolytic	2	
		CABINET PARTS		
K1	RYMXC100F1X8	Front Cabinet Ass'y (Silver)	1	
K1	RYMXC100FX91	Front Cabinet Ass'y (Brown)	1	
K1-1	RBC395Z	Button, Rec Mute	1	
K2	RYFXC100FX8	Rear Cabinet Ass'y (Silver)	1	
K2	RYFXC100FX1	Rear Cabinet Ass'y (Brown)	1	
K2-1	RJT765Z	Terminal, Telescopic Antenna	1	
K2-2	RJC936Z	Terminal, Battery +, - Side	1	
K3	RYPXC1001N	Cassette Panel Ass'y (Silver)	1	
K3	RYPXC100FX1	Cassette Panel Ass'y (Brown)	1	
K4	RYNX7000N7	Battery Cover Ass'y (Silver)	1	
K4	RYNXC100FX91	Battery Cover Ass'y (Brown)	1	
K5	RKX241Z	Handle (Silver)	1	
K5	RKX241Z2	Handle (Brown)	1	
K6	RBC393Z	Button, TPS, Meter etc.	4	
K7	RDS5093Z	Spring, Button	4	
K8	RBD170Z	Knob, Equalizer	5	
K9	RBN554Z	Knob, Fine Tuning, Balance	2	
K10	RBN561Y	Knob, Tuning	1	
K11	RBN586Y	Knob, Rec Level (Left)	1	
K12	RBN608Z	Knob, Rec Level (Right)	1	
K13	RBN607Z	Knob, Volume	1	
K14	RBS193X	Knob, Tape Selector, Band etc.	3	
K15	RBS193W	Knob, Mixing	1	
K16	RBC396Z	Button, Speaker Box Lock (Silver)	2	
K16	RBC396Z2	Button, Speaker Box Lock (Brown)	2	
K17	RUL662Z	Bracket, Button	2	
K18	RDS5133Z	Spring, Button	2	
K19	RKX180Y	Arm, Handle	2	
K20	RKT134Z	Stopper, Arm (Silver)	2	
K20	RKT134Z2	Stopper, Arm (Brown)	2	
K21	XEAQCR228FAK	Telescopic Antenna	1	
K22	RKE415Z	Cover, SP Cord Compartment (Silver)	2	
K22	RKE415Z2	Cover, SP Cord Compartment (Brown)	2	
K23	RKX207Z	Bracket, Handle	2	
K24	XYN3+F15FN	Screw, Telescopic Antenna M'tg (Silver)	1	
K24	XYN3+F15FZ	Screw, Telescopic Antenna M'tg (Brown)	1	
K25	XTC3+8CFN	Screw, Cabinet M'tg (Silver)	4	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
K25	XTS3+8BFZ	Screw, Cabinet M'tg (Brown)	4	S
K26	XTV3+50G	Screw, Cabinet M'tg	2	
K27	XTB3+8CFN	Screw, Handle M'tg (Silver)	2	
K27	XTB3+8BFZ	Screw, Handle M'tg (Brown)	2	S
K28	XTS3+12CFN	Screw, Stopper M'tg (Silver)	2	
K28	XTS3+12CFZ	Screw, Stopper M'tg (Brown)	2	
K29	XTV3+10G	Screw, Bracket M'tg	2	
		SPEAKER BOX		
K30	RYMC1002N8	Speaker Box Ass'y, Left (Silver)	1	
K30	RYMC1002FX91	Speaker Box Ass'y, Left (Brown)	1	
K31	RYMC1003N8	Speaker Box Ass'y, Right (Silver)	1	
K31	RYMC1003FX91	Speaker Box Ass'y, Right (Brown)	1	
K32	RMS40Z	Bracket, Tweeter	4	
K33	RHG1049Z	Rubber, Tweeter	2	
K34	RKE413Z	Shaft, SP Box	2	
K35	RGM232Z	Metal Grille, Tweeter (Silver)	2	
K35	RGM232Z1	Metal Grille, Tweeter (Brown)	2	
K36	RGX1275Z	Ornament, Tweeter	2	
K37	RJF1089Z	Terminal, Speaker	2	
K38	RUL661Z	Bracket, SP Box (Silver)	1	
K38	RUL661Y	Bracket, SP Box (Brown)	1	
K39	RKF592Y7	Cover, SP Box (Silver)	2	
K39	RKF592Y1	Cover, SP Box (Brown)	2	
K40	XMM31+13FN	Screw, Cover M'tg (Silver)	20	
K40	XMM31+13FZ	Screw, Cover M'tg (Brown)	20	
K41	XTV3+12GFN	Screw, Bracket M'tg (Silver)	8	
K41	XTV3+12GFZ	Screw, Bracket M'tg (Brown)	8	
K42	XYN3+F16	Screw, Shaft M'tg	4	
K43	XTV3+10G	Screw, Speaker M'tg	4	
K44	XTWR3+12Q	Screw, Speaker M'tg	8	
		ELECTRICAL PARTS		
E1	XBA1C50NS1	Fuse	1	⚠
E2	RUB263Z	Lever, Record/Playback	1	
E3	RDS3121Z	Spring, Lever	1	
E4	RADBG103ZS	Display Tube	1	
E5	RUS462Z	Spring, Display Tube	1	
E6	RDD4015Y	Drum, Dial	1	
E7	RDR20-3	Pulley, Dial	4	
E8	RDR21-1	Pulley	1	
E9	RDS3060A	Spring, Dial	1	
E10	RDZ05Z	Cord, Dial	1 ROLL	
E11	RDT9122Y	Shaft, Tuning	1	
E12	RUL681Z	Bracket, Display Tube	1	
E13	RNW150-2	Washer, Pulley	5	
E14	RKD613X	Scale, Dial (Silver)	1	
E14	RKD613T	Scale, Dial (Brown)	1	
E15	RDP845Z	Pointer, Dial	1	
E16	XAMR43T150A	Pilot Lamp, Dial	2	S
E17	RGL52Z	Panel, Pilot Lamp	1	
E18	RGP773Z	Panel, Display Tube	1	
E19	RBC394Z	Button, Loudness, Dolby NR etc.	3	
E20	RBZ515Z	Lever, Switch	4	
E21	RJF1046Z	Terminal, EXT Antenna	3	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
E22	RJT764Z	Terminal, Telescopic Antenna	1	
E23	RJT514Z	Terminal, Earth	1	
E24	QTF1054	Terminal, Fuse	2	
E25	RJC511Z	Terminal, Battery - Side	1	
E26	RUV664Z	Cover, Power Circuit Board	1	
E27	RUL683Z	Bracket, Circuit Board	1	
E28	RJS2L1Z	Socket, 2 Pin	5	
E29	RJS3L1Z	Socket, 3 Pin	7	
E30	RJS4L1Z	Socket, 4 Pin	1	
E31	RJS5L1Z	Socket, 5 Pin	4	
E32	RJS6L1Z	Socket, 6 Pin	1	
E33	RJP2G1Z	Plug, CP11, 16, 17	3	
E34	RJP2G2Z	Plug, CP1, 15	2	
E35	RJP3G1Z	Plug, CP13, 14, 18	3	
E36	RJP3G2Z	Plug, CP9, 6	2	
E37	RJP3G3Z	Plug, CP2, 3	2	
E38	RJP4G1Z	Plug, CP8	1	
E39	RJP5G1Z	Plug, CP7, 10	2	
E40	RJP5G2Z	Plug, CP4, 5	2	
E41	RJP6G1Z	Plug, CP12	1	
E42	RJT462Z	Terminal, Socket	60	
E43	RJM142Z	Microphone	2	
E44	RHD350Z	Screw, Record/Playback Lever M'tg	2	
E45	EHG416Z	Cover, Microphone	2	
E46	RHR1176Z	Spacer, Band Switch Shaft	1	
E47	RJT667Z	Terminal, Circuit Board	2	
E48	RMD1111Y	Bracket, Circuit Board	1	
E49	XANR2T20	Neon Lamp, Arrester	1	
E50	XSN26+5	Screw, Drum M'tg	1	S
E51	XWA26B	Washer	1	S
E52	XSN3+6S	Screw, Switch & Circuit Board M'tg	21	S
E53	XWA3B	Washer	7	S
E54	XSN3+8S	Screw, Panel M'tg	3	S
E55	XWG3	Washer	20	S
E56	XSN4+6S	Screw, Transformer M'tg	4	S
E57	XTV3+10G	Screw, Chassis M'tg	6	
E58	XTV3+10GR	Red Screw, Circuit Board M'tg	14	
E59	XTV3+12G	Screw, Transformer M'tg	3	
E60	XTW3+12F	Screw, Circuit Board M'tg	1	
E61	XTV3+8BFN	Screw, Transistor M'tg	5	S
E62	XTW3+8F	Screw, Transistor M'tg	1	
E63	XTV3+6F	Screw, Bracket M'tg	1	
E64	XNS11	Nut, Rec Level M'tg	1	S
E65	XNS8D	Nut, Balance, Volume etc. M'tg	3	
		ACCESSORIES		
	RJA21Z	Power Cord, AC	1	⚠
	RJE123Z	Speaker Cord	2	
	RJP120ZS	Plug, Power Cord	1	⚠
	RQE13Z	Caution Tag	1	
	RJN34Z	Cassette Tape	1	
		PACKING MATERIALS		
	XZB45X40A04	Polyethylene Cover	2	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
	XZB60X60A04	Polyethylene Cover	1	S
	RPN3672Z	Pad, Cassette Panel	1	
	RPN9411Z	Pad Complete	1	
	RPK1374Z	Gift Box	1	
		PRINTED MATERIAL		
	RQX6914Z	Instruction Book	1	

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